

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: October 8, 2005, 02:13:36 ; Search time 964 Seconds
(without alignments)
8496.529 Million cell updates/sec

Title: US-10-626-445-5

Perfect score: 1176

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Searched: 8443130 seqs, 3482420727 residues

Total number of hits satisfying chosen parameters: 16886260

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*

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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

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3	1176	100.0	1176	21	US-10-626-398-5
4	958.4	81.5	1176	20	US-10-626-445-6
5	958.4	81.5	1176	21	US-10-626-126-6
6	958.4	81.5	1176	21	US-10-626-398-6
7	686.6	58.4	1173	9	US-09-812-216-1

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9	686.6	58.4	1173	10	US-09-875-076-13	Sequence 13, Appl1
10	686.6	58.4	1173	10	US-09-876-252-13	Sequence 13, Appl1
11	686.6	58.4	1173	13	US-10-052-193-1	Sequence 1, Appl1
12	686.6	58.4	1173	15	US-10-272-983-13	Sequence 13, Appl1
13	686.6	58.4	1173	15	US-10-354-769-1	Sequence 1, Appl1
14	686.6	58.4	1173	16	US-10-393-807-13	Sequence 13, Appl1
15	686.6	58.4	1173	17	US-10-417-820A-13	Sequence 13, Appl1
16	686.6	58.4	1173	18	US-10-349-253A-1	Sequence 1, Appl1
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ALIGNMENTS

RESULT 1
US-10-626-445-5
; Sequence 5, Application US/10626445
; Publication No. US20040248252A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Liu, Changlu
; TITLE OF INVENTION: DNA Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0032
; CURRENT APPLICATION NUMBER: US/10/626,445
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-626-445-5

Query Match 100.0%; Score 1176; DB 20; Length 1176;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1176; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 ATGTCGAGCTTAACAGTACTGCGATCTTGCCACGAGCTGCTGACGCTCCCTGGCATTT 60

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US-10-626-126-5
; Sequence 5, Application US/10626126
; Publication No. US2005074770A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Liu, Changlu
; TITLE OF INVENTION: DNAS Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0033
; CURRENT APPLICATION NUMBER: US/10/626.126
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; PRIOR FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-626-126-5
Query Match 100.0%; Score 1176; DB 21; Length 1176;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1176; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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US-10-626-398-5

Sequence 5, Application US/10626398
Publication No. US20050074841A1
GENERAL INFORMATION:
APPLICANT: Lovenberg, Timothy
APPLICANT: Liu, Changju
TITLE OF INVENTION: DNA Encoding Mammalian Histamine Receptor Of The H4 Subtype
FILE REFERENCE: PRD-0034
CURRENT APPLICATION NUMBER: US/10/626,398
PRIOR FILING DATE: 2003-07-23
PRIOR APPLICATION NUMBER: 09/790,849
PRIOR FILING DATE: 2001-02-22
PRIOR APPLICATION NUMBER: 60/208,260
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.2
SEQ ID NO 5
LENGTH: 1176
TYPE: DNA
ORGANISM: Mus musculus
US-10-626-398-5

Query Match 100.0%; Score 1176; DB 21; Length 1176;
Beet Local Similarity 100.0%; Pred. No. 0;
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Db 1141 CCAGGCGTGTCAAGAACCAAGTATCTTCTTGA 1176

RESULT 4
US-10-626-445-6
; Sequence 6, Application US/10626445
; Publication No. US20040248252A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Liu, Changlu
; TITLE OF INVENTION: DNAS Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0032
; CURRENT APPLICATION NUMBER: US/10/626,445
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; PRIOR FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 6
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Rattus rattus
US-10-626-445-6

Query Match 81.5%; Score 958.4; DB 20; Length 1176;
Best Local Similarity 88.4%; Pred. No. 4.3e-291;
Matches 1040; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

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DB 1 ATGTGGAGTCTTAACAGTACTGTCATCTTCCACCAAGCTGCTCAGTCCCTTGGCATTT 60
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QY 361 TCTTATAGGCTCAACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
DB 361 TCTTATAGGCTCAACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
QY 421 ATACTGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
DB 421 ATACTGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
QY 481 ACAGAACACAAAGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 540
DB 481 ACAGAACACAAAGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 540
QY 541 ATGCTCTTGAATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
DB 541 ATGCTCTTGAATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
QY 601 TGGAGCTGTGGAAGGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 660
DB 601 TGGAGCTGTGGAAGGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 660
```

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QY 661 ACCTCTTCAGTCTTCAAGACATTTACACAGAGCTGGGCTGCTTGCAGACAAATATAT 720
DB 661 ACCTCTTCAGTCTTCAAGACATTTACACAGAGCTGGGCTGCTTGCAGACAAATATAT 720
QY 721 CCTGATTTGAAGGAATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGAT 780
DB 721 CCTGATTTGAAGGAATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGAT 780
QY 781 ATCTGTGCTCTTAAAGACTCAACATGAAACAGACATATCATGCTCTTCAAAATGGGCTTC 840
DB 781 ATCTGTGCTCTTAAAGACTCAACATGAAACAGACATATCATGCTCTTCAAAATGGGCTTC 840
QY 841 TTCTGCGCATGGAAGATGACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
DB 841 TTCTGCGCATGGAAGATGACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
QY 901 AGAAGCTAGCAGAGTCACTGGCCATCTTCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
DB 901 AGAAGCTAGCAGAGTCACTGGCCATCTTCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
QY 961 TACTGTCTGCTCAAAATTTGCTCTTCAATTTACCCAGAACGGAACGCCCAATCGGTG 1020
DB 961 TACTGTCTGCTCAAAATTTGCTCTTCAATTTACCCAGAACGGAACGCCCAATCGGTG 1020
QY 1021 TGTGACAGATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
DB 1021 TGTGACAGATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
QY 1081 CCTTGTGCTCAAGGCTTTCCAGAAAGCTTTCTGGAAGATATCTTGTGTGCAAAAGCA 1140
DB 1081 CCTTGTGCTCAAGGCTTTCCAGAAAGCTTTCTGGAAGATATCTTGTGTGCAAAAGCA 1140
QY 1141 CGAGGCTGTGACAGAACCACTGATCTTCTTGA 1176
DB 1141 CGAGGCTGTGACAGAACCACTGATCTTCTTGA 1176
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RESULT 5
US-10-626-126-6
; Sequence 6, Application US/10626126
; Publication No. US20050074770A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Liu, Changlu
; TITLE OF INVENTION: DNAS Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0033
; CURRENT APPLICATION NUMBER: US/10/626,126
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; PRIOR FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 6
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Rattus rattus
US-10-626-126-6

Query Match 81.5%; Score 958.4; DB 21; Length 1176;
Best Local Similarity 88.4%; Pred. No. 4.3e-291;
Matches 1040; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

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QY 1 ATGTGGAGTCTTAACAGTACTGTCATCTTCCACCAAGCTGCTCAGTCCCTTGGCATTT 60
DB 1 ATGTGGAGTCTTAACAGTACTGTCATCTTCCACCAAGCTGCTCAGTCCCTTGGCATTT 60
QY 61 TTAATGCTCTTATGCTTTCCTTATATGATGATGATGATGATGATGATGATGATGATGAT 120
DB 61 TTAATGCTCTTATGCTTTCCTTATATGATGATGATGATGATGATGATGATGATGATGAT 120
QY 121 GTGTGGACAGAAACCTTAGACATGAAATTAATTTTCTTAATTTGGCTATTTCT 180
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121 GTAGCAGACAGAAACCTTAGACATCGAAGTAATATTTTCTTAATTTGGCATTTCT 180
181 GACTTCCTGTTGGGTTTGAATTTCCATTCCTCTGACATCCCTCAGCGTTGTTACTGG 240
181 GACTTCCTGTTGGGTTTGAATTTCCATTCCTCTGACATCCCTCAGCGTTGTTACTGG 240
241 AATTTTGAAGTGAATCTGCATGTTTGGCTCATTAAGTACTATCTTTTGTGACACGCA 300
241 AATTTTGAAGTGAATCTGCATGTTTGGCTCATTAAGTACTATCTTTTGTGACACGCA 300
301 TCTGCTCAATATTTGCTCTCATTAAGTACTATCTTTTGTGACACGCA 360
301 TCTGCTCAATATTTGCTCTCATTAAGTACTATCTTTTGTGACACGCA 360
301 TCTGCTCAATATTTGCTCTCATTAAGTACTATCTTTTGTGACACGCA 360
361 TCTATATAGGCTCAACAGCTGAGCATCAGATGATGATGATGATGATGATGATGATG 420
361 TCTATATAGGCTCAACAGCTGAGCATCAGATGATGATGATGATGATGATGATGATG 420
361 TCTATATAGGCTCAACAGCTGAGCATCAGATGATGATGATGATGATGATGATGATG 420
421 ATACTGGCTTTCTTGTGAATAGGCTGATGATGATGATGATGATGATGATGATGATG 480
421 ATACTGGCTTTCTTGTGAATAGGCTGATGATGATGATGATGATGATGATGATGATG 480
481 ACCAACAACAAAGAGCTGTAGAGCTGCTGTTTGTACAGAGTGTACATCTCACATTACA 540
481 ACCAACAACAAAGAGCTGTAGAGCTGCTGTTTGTACAGAGTGTACATCTCACATTACA 540
541 ATGCTCTTGAATTTCTGCTCTCTGCTCATCTGCTGCTTATTTCAATGATGATGATG 600
541 ATGCTCTTGAATTTCTGCTCTCTGCTCATCTGCTGCTTATTTCAATGATGATGATG 600
601 TGGAGCTGTGAAGGCTGAGGCTCTCAGTGAAGGCTGAGGCTGAGGCTGAGGCTGAG 660
601 TGGAGCTGTGAAGGCTGAGGCTCTCAGTGAAGGCTGAGGCTGAGGCTGAGGCTGAG 660
661 ACCCTTCCAGAGCTTCAAGACCTTACAGACAGAGCTGAGGCTGAGGCTGAGGCTGAG 720
661 ACCCTTCCAGAGCTTCAAGACCTTACAGACAGAGCTGAGGCTGAGGCTGAGGCTGAG 720
721 CCTGGAATTAAGGAATCAGTGTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780
721 CCTGGAATTAAGGAATCAGTGTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780
781 ATCTGCTGTCTTAAAGATCATGATGATGATGATGATGATGATGATGATGATGATG 840
781 ATCTGCTGTCTTAAAGATCATGATGATGATGATGATGATGATGATGATGATGATG 840
841 TTCTGCGATTCGGAAGGCTGAGGCTTCCGCAAGAGGAGTACGACAGCTTCTCAGAG 900
841 TTCTGCGATTCGGAAGGCTGAGGCTTCCGCAAGAGGAGTACGACAGCTTCTCAGAG 900
901 AGGAACTGAGGCTGAGGCTGAGGCTTCCGCAAGAGGAGTACGACAGCTTCTCAGAG 960
901 AGGAACTGAGGCTGAGGCTGAGGCTTCCGCAAGAGGAGTACGACAGCTTCTCAGAG 960
961 TACTGCTGTCTTAAAGATCATGATGATGATGATGATGATGATGATGATGATGATG 1020
961 TACTGCTGTCTTAAAGATCATGATGATGATGATGATGATGATGATGATGATGATG 1020
1021 TGGTACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1080
1021 TGGTACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1080
1081 CTTTGTGTGACAGGCTTCCGCAAGAGGCTTCCGCAAGAGGAGTACGACAGCTTCTCAGAG 1140
1081 CTTTGTGTGACAGGCTTCCGCAAGAGGCTTCCGCAAGAGGAGTACGACAGCTTCTCAGAG 1140
1141 CCAGAGCTGTGACAGAGGCTGAGGCTTCCGCAAGAGGAGTACGACAGCTTCTCAGAG 1176
1141 CCAGAGCTGTGACAGAGGCTGAGGCTTCCGCAAGAGGAGTACGACAGCTTCTCAGAG 1176

us-10-626-398-6
; Sequence 6, Application US/10626398
; Publication No. US20050074841A1
; GENERAL INFORMATION:
; APPLICANT: Lovendeg, Timothy
; APPLICANT: Liu, Changlu
; TITLE OF INVENTION: DNA Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0034
; CURRENT APPLICATION NUMBER: US/10/626,398
; PRIORITY FILING DATE: 2003-07-23
; PRIORITY FILING DATE: 2001-02-22
; PRIORITY FILING DATE: 2001-02-22
; PRIORITY FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Rattus rattus
us-10-626-398-6
Query Match 81.5%; Score 958.4; DB 21; Length 1176;
Best Local Similarity 88.4%; Pred. No. 4,3e-291;
Matches 1040; Conservative 0; Mismatches 136; Indels 0; Gaps 0;
1 ANTCGGAGCTTAAGTACGATGATGATGATGATGATGATGATGATGATGATGATGATG 60
1 ANTCGGAGCTTAAGTACGATGATGATGATGATGATGATGATGATGATGATGATGATG 60
61 TTAATGCTTCAATTTGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATG 120
61 TTAATGCTTCAATTTGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATG 120
121 GTGCTGACAGAACTTACAGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
121 GTGCTGACAGAACTTACAGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
181 GACTTCCTGTTGGGTTTGAATTTCCATTCCTCTGACATCCCTCAGCGTTGTTACTGG 240
181 GACTTCCTGTTGGGTTTGAATTTCCATTCCTCTGACATCCCTCAGCGTTGTTACTGG 240
241 AATTTTGAAGTGAATCTGCATGTTTGGCTCATTAAGTACTATCTTTTGTGACACGCA 300
241 AATTTTGAAGTGAATCTGCATGTTTGGCTCATTAAGTACTATCTTTTGTGACACGCA 300
301 TCTGCTCAATATTTGCTCTCATTAAGTACTATCTTTTGTGACACGCA 360
301 TCTGCTCAATATTTGCTCTCATTAAGTACTATCTTTTGTGACACGCA 360
361 TCTATATAGGCTCAACAGCTGAGCATCAGATGATGATGATGATGATGATGATGATGATG 420
361 TCTATATAGGCTCAACAGCTGAGCATCAGATGATGATGATGATGATGATGATGATGATG 420
421 ATACTGGCTTTCTTGTGAATAGGCTGATGATGATGATGATGATGATGATGATGATGATG 480
421 ATACTGGCTTTCTTGTGAATAGGCTGATGATGATGATGATGATGATGATGATGATGATG 480
481 ACCAACAACAAAGAGCTGTAGAGCTGCTGTTTGTACAGAGTGTACATCTCACATTACA 540
481 ACCAACAACAAAGAGCTGTAGAGCTGCTGTTTGTACAGAGTGTACATCTCACATTACA 540
541 ATGCTCTTGAATTTCTGCTCTCTGCTCATCTGCTGCTTATTTCAATGATGATGATG 600
541 ATGCTCTTGAATTTCTGCTCTCTGCTCATCTGCTGCTTATTTCAATGATGATGATG 600
601 TGGAGCTGTGAAGGCTGAGGCTCTCAGTGAAGGCTGAGGCTGAGGCTGAGGCTGAG 660
601 TGGAGCTGTGAAGGCTGAGGCTCTCAGTGAAGGCTGAGGCTGAGGCTGAGGCTGAG 660
661 ACCCTTCCAGAGCTTCAAGACCTTACAGACAGAGCTGAGGCTGAGGCTGAGGCTGAG 720
661 ACCCTTCCAGAGCTTCAAGACCTTACAGACAGAGCTGAGGCTGAGGCTGAGGCTGAG 720

QY	721	CTGGATTTGAAGGAATCACTGCGCATCTGTCACTCAGAAAGTCTCGAAGAAAGAGCAGC	780
Db	721	CTTGATTTAAAGGAACAGCCGCATCCTTCAATTCAGAAATCCACAGAGAAAGCAGT	780
QY	781	ATCCTGCTGTCCTTTAAGGACTCAATGAAACAGCAGTACTACTGCTTCAAGTGGCTTCC	840
Db	781	CTCCTGGGTGTCCTTTAAGGACTCAATGAGCGGTAGTATCATTCGCTTCAAAAGTGGTCTCC	840
QY	841	TTCTGCGGATCGGAAAGTGCAGCGCTTGCCAAAGGGAGTACGCAAGGCTTCTGAGAGGC	900
Db	841	TTCTGCCGATAGAAAGCCACAGTGTTCACAGAGAGAGCAACGTGAGCTTCTGAGAGGC	900
QY	901	AGGAAGCTAGCCAGGTCACTGCGCATCCTTCTGAGCGCTTTTGGCATTGTCTGGGATCCA	960
Db	901	AGGAAGCTAGCCAGGTGCTAGTGTGCTCCTGAGTGTCTTTTGGCATTGTGCGGGCTCCG	960
QY	961	TACTGTCTGTTCACAAATGTCTTTCAACTTACCCCAAGAGGAACGCCCAATCGGTG	1020
Db	961	TATTGCCGTGTTCACAAATGTCTTTCAACTTATGCAAGAGGAGAGCGCCCAATTCGATTT	1020
QY	1021	TGTATCAGACATTTGCTCTGCGTGAATGTTCAATTGTTTGTAAATCCCTTCTGTATC	1080
Db	1021	TGTATCAGACATAGCTTTTGGCTACAGTGGTTCAATTATCATTTATTAATCCCTTCTATATC	1080
QY	1081	CCTTTGTGTCAACAGCGCTTTTCAAGAGGCTTTTGGAAAGATATCTTGTGTGACAAAGCA	1140
Db	1081	CCTTTGTGTCCACAAACGTTTCCAAAGGCTTTTGGAAAGATATCTGTGTGACAAAGCA	1140
QY	1141	CCAGGCGCTGCACGAAGCCAGTCAAGTATCTTCTTGA	1176
Db	1141	CCAGGACCTTTCACAGACCAGTCAAGTATCTTCTTGA	1176

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RESULT 7
US-09-812-216-1
; Sequence 1, Application US/09812216
; Patent No. US20020098539A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Jiang Xu
; APPLICANT: Hedrick, Joseph A.
; APPLICANT: Laz, Thomas M.
; APPLICANT: Monsema, Frederick J. Jr.
; APPLICANT: Morse, Kelley L.
; APPLICANT: Umland, Shelby P.
; APPLICANT: Wang, Suke
; TITLE OF INVENTION: Histamine receptor
; FILE REFERENCE: CN01069
; CURRENT APPLICATION NUMBER: US/09/812,216
; CURRENT FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 09/414,010
; PRIOR FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1173
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-812-216-1

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Query Match	58.4%	Score 686.6;	DB 9;	Length 1173;
Best Local Similarity	75.1%;	Pred. No. 2.76-205;		
Matches 886;	Conservative	0;	Mismatches 284;	Indels 9;
				Gaps 2;

Qy	1	ATGTCGGAGTCTAACAGACTGCGATCTTGGACACAGCTGTCAAGTCCCTTGGACATT	60
Db	1	ATGCCAGATATCTAATAGCACAATCAATTTATCACTTAAGCACTCGGTTACTTTAGCATT	60
Qy	61	TTAATGCTTCATTTGCTCTTGCTATATAAGTAGGCAATGCTGGTGCATCTTACGCTT	120
Db	61	TTTAATGCTCTTAGTACCTTTTGTGCTATATAGCTAGGAATGCTTGGTATATTAGCTTT	120
Qy	121	GTGCTGACAGAAACCTTAGCATTCGAGATTAATATTTTTCCTTAATTTGGCATATTTCT	180

D	b	121	GTGGTGGACAAAACCTTAGACATCGAAGTAGTATTTTTCCTTAACCTGGCATCTCT	180
Q	y	181	GACTTCCTCGTGGATTGATTTCCATTCCTCTGTACATCCCTCACTGCTGTTTAACTGG	240
D	b	181	GACTTCCTTGTGGGTGGATCTCCATCTCTTTGTGACATCCCTCAACAGCTGTTGCAATGG	240
Q	y	241	AATTTTGGAAATGGAAATCGACATGTTTGGCTCTATTACACATATCTTTTGTGACCGCA	300
D	b	241	GATTTTGGAAAAGAAATCTGTATTTTGGCTCTACTAGCATATCTGTATGTACAGCA	300
Q	y	301	TCGTCTACAAATATTTGCTCATTTAGCTGACATGATACAGTCAAGTTCAATGCTGTG	360
D	b	301	TCGTATATATACATTTGCTCATACGTATGATGATGATACCTGTACGTCAAAATGCTGTG	360
Q	y	361	TCTTATNAGGCTCAACACACTGGCATATGAAATTTGTCTCAATATGTTGGCTGTTGG	420
D	b	361	TCTTATATGAACTCAACACTGAGGGTCTTGAAAGTTGTATCTCGATGGTGGCCGTGTTGG	420
Q	y	421	ATATCGCTTCTTTTGGTAATNAGCCGAGATTCGTGGCTCAGATTCTTGGAAAGAACGC	480
D	b	421	GTGTGTGCTCTTTAGTGAATNAGGCCAATATTTCTAGATTTCCAGTGTCTTGGAAAGA---	476
Q	y	481	ACGAAACAAGAGACTGTGAGCTGTGCTTTGTTACAGAGTGATACATCCACCATTTACA	540
D	b	477	--TGAAGTAGTGAATGTGAACCTGGATTTTTTCCGAATATGTATACCTTTGCATACACA	534
Q	y	541	ATGCTCTTGGAAATTTCTGCTTCTGTATCTCTGTGGCTTATTTCAATGATACATTTAC	600
D	b	535	TCATCTTGGAAATTCGATCCAGATCATTTAGTCGCTTATTTTCAACATGAATATTTAT	594
Q	y	601	TGAGAGCTGTGGAAGCGTAGGGGCTCTAGTAGGGCCCTGAGCCATGTGTGATTTCTCACT	660
D	b	595	TGAGAGCTGTGGAAGCGTAGTCAATCTAGTAGGTGCCAAGCCATCTGTGACTGTGCT	654
Q	y	661	ACCTCTTCCAGTGCCTTCAGAGCACTTACACAGAGCTGTGGCTTGCAGACACATGAAT	720
D	b	655	GTCTCTTCCAAACATCTGTGACACTCATTTGAGAGTAGATCATTTCAAGAGATCTCTT	714
Q	y	721	CTGTGATTTGAAGAAATCAGTGCATCTCTGTACTCAGAAATGCTCTGAAAGAGACGC	780
D	b	715	TCGTCAATCGACAGAAAGTTCTGTGATCTCTTTCATTACAGNAGAACAGAGAAAGATGAT	774
Q	y	781	ATCTGTGTCTTTAAGACTCAATGAAACAGACAGATTCATCTGCTTCAAAATGGGTTCC	840
D	b	775	CTATATGTTTCTTCAGAACCAAGATGAATGACATATGCTTCCAAATGGGTTCC	834
Q	y	841	TTCTGTGCGATTCGAAAGTGCAGGCGTTCCGCAAAAGGAGATACCGACGTTCTCAGAGGC	900
D	b	835	TTCTCCCAATCAATTTCTGTAGCTTTTACCAAAAGGAAACATGTGAATCGTTTAGAGCC	894
Q	y	901	AGAAAGCTAGCCAGGTCATGTGCCATCTTCTGAGCGCTTTTGCCATTGCTGGGCTCCA	960
D	b	895	AGGAGATTAGCCAAAGTCATGCGGCATCTCTTAGGGGTTTTCGTGTTGCTGGGCTCCA	954
Q	y	961	TACTGTCTGTTCAAATGTGCTTTTCAACTTACCCAGAACGGAAGGCCCAATATGCGTG	1020
D	b	955	TATCTCTGTTCAAATGTGCTTTTCAATTTATTTCTCAGCAACAGGCTCTAATATAGTT	1014
Q	y	1021	TGTATACAGCAATTCCTTGGCTGTGCATGTGTTCAATTCGTTGTATCCCTTCTGTAC	1080
D	b	1015	TGTATATGATTTGATTTTGGCTTCAAGTGTTCATTTCTTTGTCAATCCTCTTTTGTAT	1074
Q	y	1081	CCTTTGTGTACAGGCGTTTTCAGAAAGCTTTCTGGAAGTACTTTGTGTGACAAAGCA	1140
D	b	1075	CCATTGTGTACAAAGCGCTTTCAAAAGGCTTCTTGAAATATTTGTATATTAATAAGCAA	1134
Q	y	1141	CGAGCGGTTCACAGAAC---CAGTACGATATCTTTGGA	1176
D	b	1135	CTCTATACATTCACAAACAGTGTGGTCAATATCTTTTAA	1173

RESULT 8

US-09-910-411-1
Sequence 1, Application US/09910411
Patent No. US20020137054A1
GENERAL INFORMATION:
APPLICANT: Bergsma, Derk
APPLICANT: Fitzgerald, Laura
APPLICANT: Li, Xiaolong
APPLICANT: Michalovich, David
APPLICANT: Zhu, Yuan
TITLE OF INVENTION: AXOR35, A G-Protein Coupled Receptor
FILE REFERENCE: GP70655-2C1
CURRENT APPLICATION NUMBER: US/09/910,411
CURRENT FILING DATE: 2001-07-20
PRIOR APPLICATION NUMBER: 09/693,761
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 09/497,790
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: 09/431,898
PRIOR FILING DATE: 1999-11-02
NUMBER OF SEQ ID NOS: 2
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 1173
TYPE: DNA
ORGANISM: Homo sapien
US-09-910-411-1

Query Match 58.4%; Score 686.6; DB 9; Length 1173;
Best Local Similarity 75.1%; Pred. No. 2,7e-205;
Matches 886; Conservative 0; Mismatches 284; Indels 9; Gaps 2;

QY 1 ATGTGGAAGTCTAAGTATGCTGATCTTGGCAACGAGTCTGAGTCCCTTGGCAATT 60
DB 1 ATGCCAGATATCTATAGCAACATCAATTATCACTAAGCACTGCTGTATCTTAGCATTT 60
QY 61 TTAATCTCTTCACTTTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 120
DB 61 TTTATGTCCTTGTAGTACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 120
QY 121 GTGGTGGAGAGAAACCTTGAACATGCAAGTATTTTCTTAAATTTGGCTATTTC 180
DB 121 GTGGTGGAGAGAAACCTTGAACATGCAAGTATTTTCTTAAATTTGGCTATTTC 180
QY 181 GACTTCTCTGCTGCTTGAATTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 240
DB 181 GACTTCTCTGCTGCTTGAATTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 240
QY 241 AATTTTGAAGTGAATCTGATCTTGTGCTATTAAGTATCTTCTTCTTCTTCTTCTT 300
DB 241 GATTTTGAAGTGAATCTGATCTTGTGCTATTAAGTATCTTCTTCTTCTTCTTCTT 300
QY 301 TCTGCTCAATATTTGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 360
DB 301 TCTGCTCAATATTTGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 360
QY 361 TCTTATAGGCTCAACACATGCTGATCAAGATTTGCTCAATGAGTGTGCTTGTG 420
DB 361 TCTTATAGGCTCAACACATGCTGATCAAGATTTGCTCAATGAGTGTGCTTGTG 420
QY 421 AATCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 480
DB 421 GTGCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 480
QY 481 AGGACAG 540
DB 477 --TGAGAGTGAAGATGTAACCTGAGATTTTTCGAAAGTGAACCTGCTGATCA 534
QY 541 ATGCTCTTGAATTCCTGCTCTCTGATCTCTGAGTGAATTTCAATGATGATTTAC 600
DB 535 TCATCTTCTGGAATGCTGATCCAGTCACTTATGCTTATTTCAACATGATATTTAT 594
QY 601 TGGAGCTTGGAGAGGCTCTGAGTGGTCCCTAGCCATGCTGAGATTTCTCACT 660
DB 601 TGGAGCTTGGAGAGGCTCTGAGTGGTCCCTAGCCATGCTGAGATTTCTCACT 660

DB 595 TGAAGCTGTGGAAGGCTATCATCTCAGTAGGTGCCAAAGCCATCTTGACTGCT 654
QY 661 ACCTCTTCAAGTCTTCAAGACATTAACAGAGCTGGGTGCTTGCAGACAAATTAAT 720
DB 655 GTCTCTTCAAGATCTGTGAGACCTCATTTCAAGAGTGAATCTATCTTCAAGAGATCT 714
QY 721 CTTGATTTGAAGATCAAGTCTGATCTGCTCACTCAAGAAATCTTGAAGAAAGACGC 780
DB 715 TCTGATTTCAAGAAATCTGCTGATCTTCTTCAATTTCAAGAGAGAGAGAGAAAGT 774
QY 781 ATCTGCTGCTTCTTGAAGCTCAACAGAGATGATAGCTCTTCAAGAGAGAGAGAG 840
DB 775 CTGATTTTCTTCAAGAAATCAAGATGATGATGATGATGATGATGATGATGATGAT 834
QY 841 TTCTGCGATTCGGAAGTCAAGCTTCCGCAAGAGAGATGATGATGATGATGATGAT 900
DB 835 TTCTCCATTTCAAGATCTGATGCTTCAAGAGAGAGATGATGATGATGATGATGAT 894
QY 901 AGGAGCTTCAAGAGTCAAGTCTGATCTTCTGAGAGCTTCTTCAAGAGAGAGAG 960
DB 895 AGGAGATTCAGAGAGTCAAGTCTGATCTTCTGAGAGAGAGAGAGAGAGAGAGAG 954
QY 961 TACTGCTGCTTCAAGATTTCTTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 1020
DB 955 TATCTCTTCAAGATTTCTTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 1014
QY 1021 TGTGATGATTTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1080
DB 1015 TGTGATGATTTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1074
QY 1081 CCTTGTGCTCAAGAGGCTTCAAGAGCTTCTGAGAGATCTTGTGAGCAAGCA 1140
DB 1075 CCATTTGTGCTCAAGAGGCTTCAAGAGCTTCTGAGAGATCTTGTGAGCAAGCA 1134
QY 1141 CCAAGCTTCAAGAGCTTCAAGAGCTTCAAGAGCTTCAAGAGCTTCAAGAGCT 1176
DB 1135 CCTTGTGCTCAAGAGGCTTCAAGAGCTTCAAGAGCTTCAAGAGCTTCAAGAGCT 1173

RESULT 9
US-09-875-076-13
Sequence 13, Application US/09875076
Publication No. US20030017528A1
GENERAL INFORMATION:
APPLICANT: Chen, Ruoping
APPLICANT: Dang, Huong T.
APPLICANT: Liaw, Chen W.
TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
FILE REFERENCE: AREN0050
CURRENT APPLICATION NUMBER: US/09/875,076
CURRENT FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 09/417,044
PRIOR FILING DATE: 1999-10-12
PRIOR APPLICATION NUMBER: 60/120,416
PRIOR FILING DATE: 1999-02-16
PRIOR APPLICATION NUMBER: 60/121,851
PRIOR FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 60/123,946
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,949
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/136,436
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,437
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,439
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,567
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/137,127
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/137,131

;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/141,448
;; PRIOR FILING DATE: 1999-06-29
;; PRIOR APPLICATION NUMBER: 60/156,653
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/156,633
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/156,555
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/156,634
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/157,280
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,294
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,281
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,293
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,282
;; NUMBER OF SEO ID NOS: 74
;; SOFTWARE: PatentIn Ver. 2.1
;; SEO ID NO: 13
;; LENGTH: 1173
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-875-076-13

Query Match 58.4%; Score 686.6; DB 10; Length 1173;
Best Local Similarity 75.1%; Pred. No. 2.7e-205;
Matches 886; Conservative 0; Mismatches 284; Indels 9; Gaps 2;

QY 1 ATGCGAGAGTAACTGACGATCTGCGACGAGCTGACGCTGCTGCGATTT 60
DB 1 ATGCGAGAGTAACTGACGATCTGCGACGAGCTGACGCTGCTGCGATTT 60
QY 61 TTAATGCTTCAATTTGCTTCTGATTAATGATGAGCAATGCTGCTTACCTT 120
DB 61 TTAATGCTTCAATTTGCTTCTGATTAATGATGAGCAATGCTGCTTACCTT 120
QY 121 GTGGGAGAGAAAGCTTGAATGATGATGATGATGATGATGATGATGATG 180
DB 121 GTGGGAGAGAAAGCTTGAATGATGATGATGATGATGATGATGATGATG 180
QY 181 GACTTCCTGAGGATTTGATTCATCTCTGATACCTCTGAGCTGCTGATG 240
DB 181 GACTTCCTGAGGATTTGATTCATCTCTGATACCTCTGAGCTGCTGATG 240
QY 241 AATTTGAGAGTGAATGATGATGATGATGATGATGATGATGATGATG 300
DB 241 AATTTGAGAGTGAATGATGATGATGATGATGATGATGATGATGATG 300
QY 301 TCTGCTCAATATTTGCTTCTGATGATGATGATGATGATGATGATGATG 360
DB 301 TCTGCTCAATATTTGCTTCTGATGATGATGATGATGATGATGATGATG 360
QY 361 TCTTATAGAGTCAATGATGATGATGATGATGATGATGATGATGATG 420
DB 361 TCTTATAGAGTCAATGATGATGATGATGATGATGATGATGATGATG 420
QY 421 AATGAGGCTTTTCTGATTAATGATGATGATGATGATGATGATGATG 480
DB 421 AATGAGGCTTTTCTGATTAATGATGATGATGATGATGATGATGATG 480
QY 481 AGGAACAGAGAGTGAATGATGATGATGATGATGATGATGATGATGATG 540
DB 481 AGGAACAGAGAGTGAATGATGATGATGATGATGATGATGATGATGATG 540
QY 541 ATGCTTTGAGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
DB 541 ATGCTTTGAGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
QY 594 TCAATCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 594
DB 594 TCAATCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 594

QY 601 TGAAGCTTGTGAGAGCTGAGGCTTCAATGATGATGATGATGATGATGATG 660
DB 601 TGAAGCTTGTGAGAGCTGAGGCTTCAATGATGATGATGATGATGATGATG 660
QY 654 TGAAGCTTGTGAGAGCTGAGGCTTCAATGATGATGATGATGATGATGATG 654
DB 654 TGAAGCTTGTGAGAGCTGAGGCTTCAATGATGATGATGATGATGATGATG 654
QY 661 ACCCTTCAAGTCTTCAAGTCACTTACAGAGTGGGCTTGAAGAGATGAT 720
DB 661 ACCCTTCAAGTCTTCAAGTCACTTACAGAGTGGGCTTGAAGAGATGAT 720
QY 655 GTCTTTCACATCTGAGAGCTGATGATGATGATGATGATGATGATGATG 714
DB 655 GTCTTTCACATCTGAGAGCTGATGATGATGATGATGATGATGATGATG 714
QY 721 CCTGATTTGAAGAGATGATGATGATGATGATGATGATGATGATGATG 780
DB 721 CCTGATTTGAAGAGATGATGATGATGATGATGATGATGATGATGATG 780
QY 715 TCTGATGAGAGAGTCTGATGATGATGATGATGATGATGATGATGATG 774
DB 715 TCTGATGAGAGAGTCTGATGATGATGATGATGATGATGATGATGATG 774
QY 781 ATCTGCTGCTTCAAGTCACTTACAGAGTGGGCTTGAAGAGATGAT 840
DB 781 ATCTGCTGCTTCAAGTCACTTACAGAGTGGGCTTGAAGAGATGAT 840
QY 775 CTGATGCTTCTCAAGAGCAAGATGATGATGATGATGATGATGATGATG 834
DB 775 CTGATGCTTCTCAAGAGCAAGATGATGATGATGATGATGATGATGATG 834
QY 841 TCTGAGAGTGAAGAGTGAAGGCTTGAAGAGGATGATGATGATGATGATG 900
DB 841 TCTGAGAGTGAAGAGTGAAGGCTTGAAGAGGATGATGATGATGATGATG 900
QY 835 TCTGAGAGTGAAGAGTGAAGGCTTGAAGAGGATGATGATGATGATGATG 894
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QY 901 AGGAGCTGAGAGGCTGATGATGATGATGATGATGATGATGATGATG 960
DB 901 AGGAGCTGAGAGGCTGATGATGATGATGATGATGATGATGATGATG 960
QY 895 AGGAGCTGAGAGGCTGATGATGATGATGATGATGATGATGATGATG 954
DB 895 AGGAGCTGAGAGGCTGATGATGATGATGATGATGATGATGATGATG 954
QY 961 TACTGCTGCTTCAAGTCACTTACAGAGTGGGCTTGAAGAGATGAT 1020
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QY 955 TATCTGCTTCAAGTCACTTACAGAGTGGGCTTGAAGAGATGATGATG 1014
DB 955 TATCTGCTTCAAGTCACTTACAGAGTGGGCTTGAAGAGATGATGATG 1014
QY 1021 TGTGACAGATGCTTCTGATGATGATGATGATGATGATGATGATGATG 1080
DB 1021 TGTGACAGATGCTTCTGATGATGATGATGATGATGATGATGATGATG 1080
QY 1015 TGTGATTAAGATGATGATGATGATGATGATGATGATGATGATGATG 1074
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QY 1081 CTTTGTGCTCAAGGCTTCTGAGAGGCTTGAAGAGATGATGATGATGATG 1140
DB 1081 CTTTGTGCTCAAGGCTTCTGAGAGGCTTGAAGAGATGATGATGATGATG 1140
QY 1075 CCATGCTGCTCAAGGCTTCTGAGAGGCTTGAAGAGATGATGATGATGATG 1134
DB 1075 CCATGCTGCTCAAGGCTTCTGAGAGGCTTGAAGAGATGATGATGATGATG 1134
QY 1141 CCAGGCTGCTCAAGGCTTCTGAGAGGCTTGAAGAGATGATGATGATG 1176
DB 1141 CCAGGCTGCTCAAGGCTTCTGAGAGGCTTGAAGAGATGATGATGATGATG 1176

RESULT 10
US-09-876-252-13
; Sequence 13, Application US/09876252
; Publication No. US2003001812A1
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Lehmann-Brunema, Karin
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Lin, I-Lin
; APPLICANT: Dang, Huong T.
; APPLICANT: Chen, Ruoping
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Rec
; FILE REFERENCE: AREN-0054
; CURRENT APPLICATION NUMBER: US/09/876,252
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 09/416,760
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 60/110,060
; PRIOR FILING DATE: 1998-11-27
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-15
; PRIOR APPLICATION NUMBER: 60/121,852
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/123,944
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123,945

;; PRIOR FILING DATE: 1999-03-12
;; PRIOR APPLICATION NUMBER: 60/123,948
;; PRIOR FILING DATE: 1999-03-12
;; PRIOR APPLICATION NUMBER: 60/123,951
;; PRIOR FILING DATE: 1999-03-12
;; PRIOR APPLICATION NUMBER: 60/123,946
;; PRIOR FILING DATE: 1999-03-12
;; PRIOR APPLICATION NUMBER: 60/123,949
;; PRIOR FILING DATE: 1999-03-12
;; PRIOR APPLICATION NUMBER: 60/152,524
;; PRIOR FILING DATE: 1999-09-03
;; PRIOR APPLICATION NUMBER: 60/151,114
;; PRIOR FILING DATE: 1999-08-27
;; PRIOR APPLICATION NUMBER: 60/108,029
;; PRIOR FILING DATE: 1998-11-12
;; PRIOR APPLICATION NUMBER: 60/136,436
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/136,439
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/136,567
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/137,127
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/137,131
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/141,448
;; PRIOR FILING DATE: 1999-06-29
;; PRIOR APPLICATION NUMBER: 60/136,437
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/156,555
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/156,634
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/156,653
;; PRIOR FILING DATE: 1999-09-29
;; PRIOR APPLICATION NUMBER: 60/157,280
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,294
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,281
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/157,282
;; PRIOR FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: 60/156,633
;; PRIOR FILING DATE: 1999-09-29
;; NUMBER OF SEQ ID NOS: 146
;; SOFTWARE: Patentin version 3.0
;; SEQ ID NO 13
;; LENGTH: 1173
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-876-252-13

Query Match 58.4%; Score 686.6; DB 10; Length 1173;
Best Local Similarity 75.1%; Pred. No. 2,7e-205;
Matches 886; Conservative 0; Mismatches 284; Indels 9; Gaps 2;

QY 1 ANTCGAGCTTAACTGATGCTTGGCCACGAGCTCTGAGTCCCTTGGCATTT 60
DB 1 ATGCCAGATACATATGACAAATCAATTTATCACTAAGCACTGCTTACTTGAAGCA 60
QY 61 TTAATGCTTCATTTGCTTGGCTTATATATGATAGGCAATGCTGATCTTACCTTT 120
DB 61 TTTATGCTTCTTATAGCTTTTCTATATATCTAGGAATGCTTGGCATTTTACCTTT 120
QY 121 GTGGTGAGAGAAACCTTAGACATCGAATTAATTTTCTTAATTTGGCTATTTCT 180
DB 121 GTGGTGAGAGAAACCTTAGACATCGAATTAATTTTCTTAATTTGGCATCTCT 180
QY 181 GACTTCTCTGCTGTTGATTTTCATCTCTGTAACATCTCTACGCTGTTTAACTGG 240
DB 181 GACTTCTCTGCTGTTGATTTTCATCTCTGTAACATCTCTACGCTGTTGAAAGG 240

QY 241 AATTTGGAAGGGAATCTGATGTTTGGCTCATTTAGACTATCTTTTGGACCGCA 300
DB 241 GATTTGGAAGGGAATCTGATGTTTGGCTCATTTAGACTATCTTTTGGACCGCA 300
QY 301 TCTGTCTACAAATTTTCTTCAATTTAGTACATGATGATGATGATGATGATGATG 360
DB 301 TCTGTATATACAAATTTTCTTCAATTTAGTACATGATGATGATGATGATGATG 360
QY 361 TCTTATAGGCTCAACACATGAGCATGATGATGATGATGATGATGATGATGATG 420
DB 361 TCTTATAGGCTCAACATGAGCATGATGATGATGATGATGATGATGATGATG 420
QY 421 ATACTGCTTTCTTGTAAATGAGCCGATGATTTGCTTCAATTTCTGGAAGAAC 480
DB 421 GTCTGAGCTTTCTTGTAAATGAGCCGATGATTTGCTTCAATTTCTGGAAGAAC 480
QY 481 AGGAACAAAGGAGCTGAGCTGCTGCTTGTACAGAGTGTACATCTTCAACATTA 540
DB 477 --TGAAAGTAGTAAAGTGAACCTGGAATTTTGGAAATGTAACATCTTGGCA 534
QY 541 ATGCTCTGGAATTTCTGCTTCTGCTGATCTGAGGCTTATTTCAATGATGATTA 600
DB 535 TCAATTTGGAATTTCTGCTTCTGCTGATCTGAGGCTTATTTCAACATGATTA 594
QY 601 TGAAGCTGTGAAGGCTGAGGCTCTAGTATGCTGCTTCAAGCAGTCTGCTACT 660
DB 595 TGAAGCTGTGAAGGCTGAGGCTCTAGTATGCTGCTTCAAGCAGTCTGCTACT 654
QY 661 ACCTTTTCCAGTCTTCAAGACATTTACACAGAGCTGAGGCTTCAAGACATTA 720
DB 655 GTCTCTTCCAAATCTGTGAGCACTTATCAAGGAGTACATCTTCAAGGAGATCT 714
QY 721 CTTGATTTGAAGGATCAGCTGATCTGCTGCTCTGAGAAAGTCTGAAAGAGACAG 780
DB 715 TCTGATTTGAAGGATCAGCTGATCTGCTGCTCTGAGAAAGTCTGAAAGAGAC 774
QY 781 ATCTGTGTCTTAAAGATCAATGAACAGATGATCACTGCTTCAAGTGGTTC 840
DB 775 CTATGTTTCTTCAAGGATCAATGAACAGATGATCACTGCTTCAAGTGGTTC 834
QY 841 TTTGAGCAATCGAAAGTGAAGCTTGGCTTGGCAAGGAGTACAGATCTTCAAGG 900
DB 835 TTTTCCCAATCAATCTGATGCTTTCACCAAGGAGTACAGATCTTCAAGG 894
QY 901 AGGAGCTAGCGAGCTGAGCTGAGCTTCTGAGGCTTTTGCATTTGCTGAGCTCA 960
DB 895 AGGAGCTAGCGAGCTGAGCTGAGCTTCTGAGGCTTTTGCATTTGCTGAGCTCA 954
QY 961 TACTGTCTTTCACAAATTTGCTTTCATTAACCCAGAACGAGCCCAATCGGTG 1020
DB 955 TATTCTCTGTTCAATTTGCTTTCATTTATTTCTTCAAGCAACAGTCTTAATCAG 1014
QY 1021 TGGTACAGATTTGCTTCTGCTGCTGATGATGATGATGATGATGATGATGATG 1080
DB 1015 TGGTATAGATTTGCTTCTGCTGCTGATGATGATGATGATGATGATGATGATG 1074
QY 1081 CCTTGTGTCAAGGCTTTCAGAGGCTTCTGAGATGATTTGTGTGCAAGAAC 1140
DB 1075 CATTGTGTCAAGGCTTTCAGAGGCTTCTGAGATGATTTGTGTGCAAGAAC 1134
QY 1141 CCAGGCTGTCAAGAAC--CAGTCAATCTTCTTGA 1176
DB 1135 CTTTACATCAACACAGTGGTCAATCTTCTTAA 1173

RESULT 11
US-10-052-193-1
; Sequence 1, Application US/10052193
; Publication No. US20020132755A1
; GENERAL INFORMATION:
; APPLICANT: Pfizer, Inc.
; TITLE OF INVENTION: HISTAMINE RECEPTOR ANTAGONISTS
; FILE REFERENCE: PC10963A

QY 61 TTAATGCTTCATTGCTTGGCTTATATGTAAGGCAATGCTGTGATCTTAAGCTTT 120
DB 61 TTAATGCTTCATTGCTTGGCTTATATGTAAGGCAATGCTGTGATCTTAAGCTTT 120
QY 121 GTGGTGGAAGAAACCTTGAACATCGAAGTAATATTTTCTTAATTTGGCTATTCT 180
DB 121 GTGGTGGAAGAAACCTTGAACATCGAAGTAATATTTTCTTAATTTGGCTATTCT 180
QY 181 GACTTCCTGTGGGTTGATTCTCCCTGTAACATCCCTGACAGTGTGTTAACTGG 240
DB 181 GACTTCCTGTGGGTTGATTCTCCCTGTAACATCCCTGACAGTGTGTTAACTGG 240
QY 241 AATTTTGAAGTGAATCTGCATGTTTGGCTCACTAATGATCTTTTGTGACCGCA 300
DB 241 AATTTTGAAGTGAATCTGCATGTTTGGCTCACTAATGATCTTTTGTGACCGCA 300
QY 301 TCTGTCTCAATATTTGCTCTCAATTAAGTCAATGATCAAGTCAAGTTCAATGCTGTG 360
DB 301 TCTGTCTCAATATTTGCTCTCAATTAAGTCAATGATCAAGTCAAGTTCAATGCTGTG 360
QY 361 TCTTATAGGGCTCAACATGCGCATCAATGAAGATTGGTCAATGAGGCTGTTGG 420
DB 361 TCTTATAGGGCTCAACATGCGCATCAATGAAGATTGGTCAATGAGGCTGTTGG 420
QY 421 AATCTGGCTTTCTTGGTAAATGCGCGATGATCTGGCTTCAGATTCTTGAAGAACAGC 480
DB 421 AATCTGGCTTTCTTGGTAAATGCGCGATGATCTGGCTTCAGATTCTTGAAGAACAGC 480
QY 481 ACAGAACAAAGAGCTGTGAGCTGCTGCTTTGTAACAGAGTGTACATCTCAACATTACA 540
DB 481 ACAGAACAAAGAGCTGTGAGCTGCTGCTTTGTAACAGAGTGTACATCTCAACATTACA 540
QY 541 ATGCTCTTGAATTCCTGCTTCTGTCATCTGCTGCTTATTTTCAATGTAAGATTTAC 600
DB 541 ATGCTCTTGAATTCCTGCTTCTGTCATCTGCTGCTTATTTTCAATGTAAGATTTAC 600
QY 535 TCATTTTGAATTCGTGATCCAGATCTTGAATGCTTATTTCAACATGAATTTAT 594
DB 535 TCATTTTGAATTCGTGATCCAGATCTTGAATGCTTATTTCAACATGAATTTAT 594
QY 601 TGGAGCTGTGAAAGGTAGAGGCTCTCAGTAGGTGCTTACCATCTGATCTCTCACT 660
DB 601 TGGAGCTGTGAAAGGTAGAGGCTCTCAGTAGGTGCTTACCATCTGATCTCTCACT 660
QY 655 GTCCTTCCAAACATCTGTGACACTCATTCAGAGTAGATCTTCAAGAGATCTCT 714
DB 655 GTCCTTCCAAACATCTGTGACACTCATTCAGAGTAGATCTTCAAGAGATCTCT 714
QY 721 CCTGATTAAGGAATCAGCTGATCTGCTCACTCAAGAAATCTCGAAGAAAGACAGC 780
DB 721 CCTGATTAAGGAATCAGCTGATCTGCTCACTCAAGAAATCTCGAAGAAAGACAGC 780
QY 715 TCTGATTCAGACAGAAAGTCTCTGATCTTCAATTCAGAGAGACAGAGAAAGAGTAGT 774
DB 715 TCTGATTCAGACAGAAAGTCTCTGATCTTCAATTCAGAGAGACAGAGAAAGAGTAGT 774
QY 781 ATCTGTGCTTCTTAAGACTCATGAAACAGCAGATCACTGCTTCAAGAGGTGCTC 840
DB 781 ATCTGTGCTTCTTAAGACTCATGAAACAGCAGATCACTGCTTCAAGAGGTGCTC 840
QY 775 CTCATGTTTTTCTCAAGAAACAGATGAATGCAATTCCTTCCAAATGGGTTCC 834
DB 775 CTCATGTTTTTCTCAAGAAACAGATGAATGCAATTCCTTCCAAATGGGTTCC 834
QY 841 TTTGCGCATTCGAAAGTGAAGGCTTCGCAAGAGAGTAGACAGAGCTTCTCAAGAGC 900
DB 841 TTTGCGCATTCGAAAGTGAAGGCTTCGCAAGAGAGTAGACAGAGCTTCTCAAGAGC 900
QY 835 TTTCTCCCAATTCAGATCTGTAGCTTTCAACCAAGAGAGATGTTGAATGCTTAGAGCC 894
DB 835 TTTCTCCCAATTCAGATCTGTAGCTTTCAACCAAGAGAGATGTTGAATGCTTAGAGCC 894
QY 901 AGGAAGTGAAGGCTGATCTGCGCATCTTCTGAGCGCTTTTGGCATTTGCTGGGCTCCA 960
DB 901 AGGAAGTGAAGGCTGATCTGCGCATCTTCTGAGCGCTTTTGGCATTTGCTGGGCTCCA 960
QY 954 AGGAGATTAAGCAAGTCACTGGGCTATCTTTAGGGGTTTTGCTGTTGCTGGGCTCCA 954
DB 954 AGGAGATTAAGCAAGTCACTGGGCTATCTTTAGGGGTTTTGCTGTTGCTGGGCTCCA 954
QY 961 TACTGCTGTTCACATTTGCTTCACTTCAATTTCCCAAGAGAGAGCGCCCAATGAGTG 1020
DB 961 TACTGCTGTTCACATTTGCTTCACTTCAATTTCCCAAGAGAGAGCGCCCAATGAGTG 1020
QY 955 TATTTCTGTTCAATTTGCTTCAATTTTATTTTCTCAGACACAGGCTCTTAATAGTT 1014
DB 955 TATTTCTGTTCAATTTGCTTCAATTTTATTTTCTCAGACACAGGCTCTTAATAGTT 1014
QY 1021 TGGTACAGCATTCGCTTGGCTGCAATGTTCAATTTGTTTAAATCCCTTTCTGTAC 1080
DB 1021 TGGTACAGCATTCGCTTGGCTGCAATGTTCAATTTGTTTAAATCCCTTTCTGTAC 1080
QY 1015 TGGTATAGAAATTCATTTGGCTTCAAGTGGTTCAATTTCTTGTCAATCTCTTTGTAT 1074
DB 1015 TGGTATAGAAATTCATTTGGCTTCAAGTGGTTCAATTTCTTGTCAATCTCTTTGTAT 1074
QY 1081 CCTTTGTGTCACAGGGCTTTCAGAGGCTTTTGTGAAGTACTTTGTGTAAGAAAGCA 1140
DB 1081 CCTTTGTGTCACAGGGCTTTCAGAGGCTTTTGTGAAGTACTTTGTGTAAGAAAGCA 1140
QY 1075 CCAATGTGTCAAGAGGCTTTCAAAAGGCTTTCTTGAAGAAATTTGTATATAAAAGCA 1134
DB 1075 CCAATGTGTCAAGAGGCTTTCAAAAGGCTTTCTTGAAGAAATTTGTATATAAAAGCA 1134

QY 1141 CCAGCGCTGTACAGAAC---CAGTCAGTATCTTTGA 1176
DB 1135 CCTTACATTCACACACAGAGTGGTCAATCTTTTAA 1173
RESULT 13
US-10-354-769-1
Sequence 1, Application US/10354769
Publication No. US20030149242A1
GENERAL INFORMATION:
APPLICANT: Pfizer Inc.
APPLICANT: O'Reilly, Mark A.
APPLICANT: Peter, Beate
TITLE OF INVENTION: NOVEL POLYPEPTIDE
FILE REFERENCE: PC10373B
CURRENT APPLICATION NUMBER: US/10/354,769
CURRENT FILING DATE: 2003-01-30
PRIOR APPLICATION NUMBER: US 09/698,801
PRIOR FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: US 60/211,243
PRIOR FILING DATE: 2000-06-14
PRIOR APPLICATION NUMBER: GB 9925641.4
PRIOR FILING DATE: 1999-10-29
PRIOR APPLICATION NUMBER: GB 0009973.9
PRIOR FILING DATE: 2000-04-20
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 1173
TYPE: DNA
ORGANISM: Homo sapiens
US-10-354-769-1
Query Match 58.4%; Score 686.6; DB 15; Length 1173;
Best Local Similarity 75.1%; Pred. No. 2.7e-205;
Matches 886; Conservative 0; Mismatches 284; Indels 9; Gaps 2;
QY 1 ATGTCGAGCTTAAACAGTACGTGATCTTGCACACAGCTGCTAGGCTCCCTGGCATTT 60
DB 1 ATGCCAGATACATATGACACATCAATTTATCACTAAGACATCTGTTTATAGCATTT 60
QY 61 TTAATGCTTCATTGCTTGGCTTATATGTAAGTGAAGTGTGATCACTTTAGCTTT 120
DB 61 TTAATGCTTCATTGCTTGGCTTATATGTAAGTGAAGTGTGATCACTTTAGCTTT 120
QY 121 GTGGTGGAAGAAACCTTGAACATCGAAGTAATATTTTCTTAATTTGGCTATTCT 180
DB 121 GTGGTGGAAGAAACCTTGAACATCGAAGTAATATTTTCTTAATTTGGCTATTCT 180
QY 181 GACTTCCTGTGGGTTGATTCTCCCTGTAACATCCCTGACAGTGTGTTAACTGG 240
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QY 241 AATTTTGAAGTGAATCTGCATGTTTGGCTCACTAATGATCTTTTGTGACCGCA 300
DB 241 AATTTTGAAGTGAATCTGCATGTTTGGCTCACTAATGATCTTTTGTGACCGCA 300
QY 301 TCTGTCTCAATATTTGCTCTCAATTAAGTCAATGATCAAGTCAAGTTCAATGCTGTG 360
DB 301 TCTGTCTCAATATTTGCTCTCAATTAAGTCAATGATCAAGTCAAGTTCAATGCTGTG 360
QY 361 TCTTATAGGGCTCAACATGCGCATCAATGAAGATTGGTCAATGAGGCTGTTGG 420
DB 361 TCTTATAGGGCTCAACATGCGCATCAATGAAGATTGGTCAATGAGGCTGTTGG 420
QY 421 AATCTGGCTTTCTTGGTAAATGCGCGATGATCTGGCTTCAGATTCTTGAAGAACAGC 480
DB 421 AATCTGGCTTTCTTGGTAAATGCGCGATGATCTGGCTTCAGATTCTTGAAGAACAGC 480
QY 481 ACAGAACAAAGAGCTGTGAGCTGCTGCTTTGTAACAGAGTGTACATCTCAACATTACA 540
DB 481 ACAGAACAAAGAGCTGTGAGCTGCTGCTTTGTAACAGAGTGTACATCTCAACATTACA 540
QY 541 ATGCTCTTGAATTCCTGCTTCTGTCATCTGCTGCTTATTTTCAATGTAAGATTTAC 600
DB 541 ATGCTCTTGAATTCCTGCTTCTGTCATCTGCTGCTTATTTTCAATGTAAGATTTAC 600

QY 841 TTCTGGCGATCGGAAGTGCAGCGCTTCGCCAAGGAGTACGACAGCTTCTCAGAGGC 900
 DB 835 TTCTCCCAATCAGATTCTGTAGCTCTTCAACCAAGGAACATGTGAACGTCTTAAGAGCC 894
 QY 901 AGGAGCTAGCCAGGTCACTGCGCATCTCTTGAGCGCTTTTGCCATTGCTGCGCTCCA 960
 DB 895 AGGAGATTAGCCCAAGTCACTGCGCATCTCTTAGGGGTTTTTCTGTGTTCTGCGCTCCA 954
 QY 961 TACTGTCTGTCAATGTGCTTTCACTTACCCCAAGGAGCGCCCAATGCGTG 1020
 DB 955 TATCTCTGTTCACAAATGTCTTTCAATTTATTCGACAAACAGGTCTTAATACAGTT 1014
 QY 1021 TGGTACAGATTGCTTCTGCTGCAATGCTTCAATTCGTTTAAATCCCTTTGTAC 1080
 DB 1015 TGGTATAGAAATGCAATTTTGGCTTCAGTGTTCATTCCTTTGCAATCCTCTTTGTAT 1074
 QY 1081 CCTTGTGTCAAGCGGCTTTCAGAAAGCTTTCTGAAAGTACTTGTGTGACAAAGCA 1140
 DB 1075 CCATGTGTCAAGAGCGCTTTCAAAGGCTTCTTGAAATATTTGTATPAAAAAGCAA 1134
 QY 1141 CCAGCGCTGTCAAGAAC---CAGTCAATATCTTTCTGA 1176
 DB 1135 CCTTACCAATCAACACACAGCTGCTGATCTTTCTTAA 1173
 RESULT 15
 US-10-417-820A-13
 / Sequence 13, Application US/10417820A
 / Publication No. US20030229216A1
 / GENERAL INFORMATION:
 / APPLICANT: Chen, Ruoping
 / APPLICANT: Liaw, Chen W.
 / APPLICANT: Lowitz, Kevin
 / APPLICANT: Chalmers, Derek T.
 / APPLICANT: Behan, Dominic P.
 / TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
 / FILE REFERENCE: 7.US28.CON
 / CURRENT APPLICATION NUMBER: US/10/417,820A
 / CURRENT FILING DATE: 2003-04-16
 / PRIOR APPLICATION NUMBER: 09/416,760
 / PRIOR FILING DATE: 1999-10-12
 / PRIOR APPLICATION NUMBER: 09/170,496
 / PRIOR FILING DATE: 1998-10-13
 / PRIOR APPLICATION NUMBER: 60/110,060
 / PRIOR FILING DATE: 1998-11-27
 / PRIOR APPLICATION NUMBER: 60/120,416
 / PRIOR FILING DATE: 1999-02-16
 / PRIOR APPLICATION NUMBER: 60/121,852
 / PRIOR FILING DATE: 1999-02-26
 / PRIOR APPLICATION NUMBER: 60/109,213
 / PRIOR FILING DATE: 1998-11-20
 / PRIOR APPLICATION NUMBER: 60/123,944
 / PRIOR FILING DATE: 1999-03-12
 / PRIOR APPLICATION NUMBER: 60/123,945
 / PRIOR FILING DATE: 1999-03-12
 / PRIOR APPLICATION NUMBER: 60/123,948
 / PRIOR FILING DATE: 1999-03-12
 / PRIOR APPLICATION NUMBER: 60/123,951
 / PRIOR FILING DATE: 1999-03-12
 / Remaining Prior Application data removed - See File Wrapper or PALM.
 / NUMBER OF SEQ ID NOS: 155
 / SOFTWARE: PatentIn version 3.2
 / SEQ ID NO 13
 / LENGTH: 1173
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 US-10-417-820A-13
 Query Match 58.4%; Score 686.6; DB 17; Length 1173;
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QY 1 ATGTGGAGTCTPAACAGTACTGGCATCTTGCCACAGCTGCTCAGGTCCCTTGACATTT 60
 DB 1 ATGCCAGATACATATAGCACAATCAATTTATCTAGCACTGCTGTACTTACATTT 60
 QY 61 TTAATGTCTTCAATTTGCTTTGCTATTAATGTAAGGCAATGCTGTGCTCATCTTACCTTT 120
 DB 61 TTTATGTCTTATAGTACTTTTGTATTAATGCTAGAAATGCTTTGCTCATTTTACCTTTT 120
 QY 121 GTGGTGAACAGAAACCTTGAACATCGAATTAATTTTTTTCTTAATTTGGCTATTTCT 180
 DB 121 GTGGTGAACAGAAACCTTGAACATCGAATTAATTTTTTTCTTAATTTGGCTATTTCT 180
 QY 181 GAATTCCTGATGGGTTTGAATTTCCATTTCTCTGTATACCTCCAGCTGTTTAACTGG 240
 DB 181 GACTTTCTTGTGGGTGTGATCTTCATTTCTTTGTATATCCCTCACAGCTGTTCGATGG 240
 QY 241 AATTTTGAAGTGAATCTGCATGTTTGGCTCATTTACTATATCTTTTGTGACCGCA 300
 DB 241 GATTTTGAAGGAATCTGTATTTTGGCTCATTTACTATATCTTTTGTGACCGCA 300
 QY 301 TCTGTCTCAATATTTGCTCTCATTTAGTACATTCATACCAGTCACTTCAATGCTGTG 360
 DB 301 TCTGTATATTAACATTTGCTCTCATTTAGTACATTCATACCAGTCTCAATGCTGTG 360
 QY 361 TCTTATAGGGCTCAACACACTGGCATCATGAAGATTGTTCAAAATGGGCTGTTTG 420
 DB 361 TCTTATATTAACATTTGCTCTCATTTAGTACATTCATACCAGTCTCAATGCTGTG 420
 QY 421 ATATGCGCTTTCTTGTGAATAGCCCGATGATCTGCGCTTCAAGATTTTGAAGAAC 480
 DB 421 GTGCTGCGCTTCTTGTGAATAGGGCCAAATGATTTCTAGAGTCTTGAAGAG- 476
 QY 481 AGGAACAAAGGACGTGAGCTGCTGTTTGAAGAGTGTACATCTTCAACATTAACA 540
 DB 477 --TGAAGTATGAAGTAACTGATTTTTCGAAATGTGATACCTTGTGCATCAACA 534
 QY 541 ATGCTTGTGAATTTCTGCTTCCTGCTCATCTGCTGCTTAAATTTCAATGACATTAAC 600
 DB 535 TCAATTTTGAATTTGCTGATCCAGTCACTTATGCTGCTTATTTCAACATGATATTTAT 594
 QY 601 TGGAGCTGTGAAGGCTAGGCTCTCAGTAGTGCTTACGCAATGCTGATTTCTTCACT 660
 DB 595 TGGAGCTGTGAAGGCTATCATCTCAGTAGTGCTTACGCAATGCTGATTTCTTCACT 654
 QY 661 ACTCTTCAAGTCTTCAAGACATTAACACAGAGCTGCTGCTTCAAGACATTAAT 720
 DB 655 GTCTCTTCAACATCTGTGACACATTAACAGAGTGAATTAATTTCAAGAGATCTTCT 714
 QY 721 CCTGATTAAGGAATCAGCTCATCTGCTCACTGCACTGCAAGAAATGCTGAAAGAACAGC 780
 DB 715 TCTGATTCACAGAAATTTCTGATCTTCTTCACTTCAAGAGACAGAGAAAGAAATGAT 774
 QY 781 ATCTGCTGTCTTAAAGATCAATGAACAGACATATCACTGCTTCAAGTGGCTTCC 840
 DB 775 CTCATGTTTTTCTCAAGAAACAAAGATGAATGAATCAATGCTTCAAAATGGCTTCC 834
 QY 841 TTCTGGCGATCGGAAGTGCAGCGCTTCGCCAAGGAGTACGACAGCTTCTCAGAGGC 900
 DB 835 TTCTCCCAATCAGATTCTGTAGCTCTTCAACCAAGGAACATGTGAACGTCTTAAGAGCC 894
 QY 901 AGGAGCTAGCCAGGTCACTGCGCATCTCTTGAGCGCTTTTGCCATTGCTGCGCTCCA 960
 DB 895 AGGAGATTAGCCCAAGTCACTGCGCATCTCTTAGGGGTTTTTCTGTGTTCTGCGCTCCA 954
 QY 961 TACTGTCTGTCAATGTGCTTTCACTTACCCCAAGGAGCGCCCAATGCGTG 1020
 DB 955 TATCTCTGTTCACAAATGTCTTTCAATTTATTCGACAAACAGGTCTTAATACAGTT 1014
 QY 1021 TGGTACAGATTGCTTCTGCTGCAATGCTTCAATTCGTTTAAATCCCTTTGTAC 1080
 DB 1015 TGGTATAGAAATGCAATTTTGGCTTCAGTGTTCATTCCTTTGCAATCCTCTTTGTAT 1074


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Db      1 ATGCCAGATCTAATATGACAAATCAATTATCACTAGACCTCGTTACTTTAGCATTT 60
Qy      21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleLeuAlaPhe 40
Db      61 TTTATGTCCTTAGTACTTTTGTCTATATAGCTAGAAATGCTTTGGTCAATTTAGCTTTT 120
Qy      41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
Db      121 GTGGTGACAAAGAAATCTGTGATTTTGGCTCAGCTACAGCTATCTGTATATGATACGA 300
Qy      61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTyr 80
Db      181 GACTCTTTTGGGGGTGGATCTTCATTCCTTTGTACATCCCTTACACGCTGTCGATG 240
Qy      81 AsnPheGlySerGlyIleCysMetPheTyrPheLeuIleThrAspTyrLeuLeuCysThrAla 100
Db      241 GATTTTGGAAAGAAATCTGTGATTTTGGCTCAGCTACAGCTATCTGTATATGATACGA 300
Qy      101 SerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
Db      301 TCTGATATATACATTCCTTCATACAGCTATGATCGATACCTGTCAGTCCAAATGCTG 360
Qy      121 SerTyrArgAlaGlnHisThrGlyIleMetLysIleValAlaGlnMetValAlaValTyr 140
Db      361 TCTTATAGAACTCAACATCTGAGGCTTGAGAGATTGTACTCTGATGGCGCTTTG 420
Qy      141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTyrLysAsnSer 160
Db      421 GTGCTGGCTTCTTATGATGATGGCCAAATGATTTCTAGTTCAGACTTGGAAAGATGAA 480
Qy      161 ThrAsnThrLysAspCysGlnProGlyPheValThrGlnTyrTyrIleLeuThrIleThr 180
Db      481 GGTAGT-----GAATGTGAACCTGGATTCTTTCGAAATGGAGTACCTTCGCATCACA 534
Qy      181 MetLeuLeuGlnPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
Db      535 TCATCTTGAATTCGTGATCCAGTCATCTTAGTGTCTTATTTCAACAGAAATATTAT 594
Qy      201 TyrSerLeuTyrLysArgArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
Db      595 TGGAGCTGTGGAAAGGTGATCATCTCAGTAGTGCCAAAGCCATCTCGACGTGCT 654
Qy      221 ThrSerSerSerAlaSerGlyHisIleuHisArgAlaGlyValAlaCysArgThrSerAsn 240
Db      655 GTCCTCTTCACATCTGTGACATCTCATTCAGAGGTAGCATATCTTCAGAGAGATCTCT 714
Qy      241 ProGlyLeuLysGlnSerAlaAlaSerArgHisSerGlnSerProArgArgLysSerSer 260
Db      715 TCTGCATCGACAAAGATCTCTGATCTCTTTCATTCAGAGAGACAGAGGAGAAAGTACT 774
Qy      261 IleLeuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySer 280
Db      775 CTCATGTTTCTTCAAGAAACCAAGATGATAGCAATGATGCTTCCAAATGGGTTCC 834
Qy      281 PheTyrArgSerGlnSerAlaAlaLeuArgGlnArgGlnTyrAlaGlnLeuLeuArgGly 300
Db      835 TTCTCCCAATCAGATCTGTAGCTCTTCCACAAAGGAAACATGTGAATGCTTTAGAGCC 894
Qy      301 ArgLysLeuValArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCysTyrAlaPro 320
Db      895 AGGAGATTATAGCCAAAGCTGCGCATTCCTTAGGGGTTTGGCTGTGGCGCTTCCA 954
Qy      321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGlnLysProLysSerVal 340
Db      955 TATTCCTGTTCAACATTCCTTTTCATTTATTCCTCAGCAACAGCTCTTAAATCAGTT 1014
Qy      341 TrpTyrSerIleAlaPheTyrLeuGlnTyrPheAsnSerPheValAsnProPheLeuTyr 360
Db      1015 TGGTATAGAAATGCAATTTGGCTTCAGTGTCTCAATTCCTTTGTCAATCTCTTTGAT 1074
Qy      361 ProLeuCysHisArgArgPheGlnLysValaPheTyrLysIleLeuCysAlaThrIleTyr 380
Db      1075 CCATTGTGTCACAAAGGCTTTCAAAAGGCTTTCTTGAATAATATTTTGTATATAAAGCAA 1134
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Qy      381 ProAlaLeuSerGln---AsnGlnSerValSerSer 391
Db      1135 CCTTACCATCAACAACAAGCTGCGTCAAGTATCTTCT 1170
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RESULT 2

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US-09-812-216-1
/ Sequence 1, Application US/09812216
/ Patent No. 6613533
/ GENERAL INFORMATION:
/ APPLICANT: Behan, Jiang Xu
/ APPLICANT: Hedrick, Joseph A.
/ APPLICANT: Laz, Thomas W.
/ APPLICANT: Monama, Frederick J. Jr.
/ APPLICANT: Morse, Kelley L.
/ APPLICANT: Umland, Shelby P.
/ APPLICANT: Wang, Suke
/ TITLE OF INVENTION: Histamine receptor
/ FILE REFERENCE: CN01069
/ CURRENT APPLICATION NUMBER: US/09/812,216
/ CURRENT FILING DATE: 2001-03-19
/ PRIOR APPLICATION NUMBER: 09/414,010
/ PRIORITY FILING DATE: 1999-10-07
/ NUMBER OF SEQ ID NOS: 8
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 1
/ LENGTH: 1173
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-812-216-1
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Alignment Scores:
Pred. No.: 5,02e-133 Length: 1173
Score: 1370.50 Matches: 267
Percent Similarity: 78.32% Conservative: 40
Best Local Similarity: 68.11% Mismatches: 82
Query Match: 66.92% Indels: 3
DB: 4 Gaps: 2
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US-10-626-445-8 (1-391) x US-09-812-216-1 (1-1173)

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Qy      1 MetSerGlnSerAsnSerThrGlyIleLeuProPheAlaIleGlnValProLeuAlaPhe 20
Db      1 ATGCCAGATCTAATATGACAAATCAATTATCACTAGACCTCGTTACTTTAGCATTT 60
Qy      21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleLeuAlaPhe 40
Db      61 TTTATGTCCTTAGTACTTTTGTCTATATAGCTAGAAATGCTTTGGTCAATTTAGCTTTT 120
Qy      41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
Db      121 GTGGTGACAAAGAAATCTGTGATTTTGGCTCAGCTACAGCTATCTGTATATGATACGA 300
Qy      61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTyr 80
Db      181 GACTCTTTTGGGGGTGGATCTTCATTCCTTTGTACATCCCTTCCACACGCTGTGGAATGG 240
Qy      81 AsnPheGlySerGlyIleCysMetPheTyrPheLeuIleThrAspTyrLeuLeuCysThrAla 100
Db      241 GATTTTGGAAAGAAATCTGTGATTTTGGCTCAGCTACAGCTATCTGTATATGATACGA 300
Qy      101 SerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
Db      301 TCTGATATATACATTCCTTCATACAGCTATGATCGATACCTGTCAGTCCAAATGCTG 360
Qy      121 SerTyrArgAlaGlnHisThrGlyIleMetLysIleValAlaGlnMetValAlaValTyr 140
Db      361 TCTTATAGAACTCAACATCTGAGGCTTGAGAGATTGTACTCTGATGGCGCTTTG 420
Qy      141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTyrLysAsnSer 160
Db      421 GTGCTGGCTTCTTATGATGATGGCCAAATGATTTCTAGTTCAGAGTCTTGGAAAGATGAA 480
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OY	161	ThrsAenthlyAaSGVgluPproGlypheValThngUtpPlyrIleleuThrlleThr	180
Db	461	GGTAGI-----GAATGTGAACCTGGATTTTTTGGAAATGGTATATCTTCCCATCA	534
OY	181	MetLeuLeuGluPheLeuLeuPProValIleSerValAlaTyPheAsnValGlnIleTy	200
Db	535	TCATCTTGGAAATTCGTATCCCACTATCTTAGTCGCTTATTTTCAACATGAATATTAT	594
OY	201	TTPSerLeuTTPLYAaRgARgAlaLeuSerARgCyPProSerHlaGlyPheSerThr	220
Db	595	TGGAGCCCTGGGAAGCGTATCATCTCAGTAGGTGCCAAAGCAATCTGACGTACTCT	654
OY	221	ThrsSerSerAlaSerGlyHileuHilaRgAlaGlyValAlaCyARgThSerAsn	240
Db	655	GTCCTTTTCCAAACATCTGTGACATCCATTCAGAGGTAGCATTAATCTTCAAGAGATCTTT	714
OY	241	ProGlyLeuLYaGluSerAlaAlaSerARgHlaSerGluSerProARgTySerSer	260
Db	715	TCTGCATGTGACAGAAATTCCTGCATCTCTTCAITTCAGAGACAGAGAGAAAGATGT	774
OY	261	IleLeuValSerLeuARgThrHlaMetAsnSerSerIleThrAlaPheLYaValGlySer	280
Db	775	CTCATGTTTCTCTCAAGAACCAAGATGATGACATACATATTCCTCCAAATGGCTCC	834
OY	281	PheTrpARgSerGluSerAlaAlaLeuARgGlnARgGlyTyraGluLeuLeuARgGly	300
Db	835	TTCTCCCATCAGATCTGTAGCTCTTCACCAAAAGGAACAATGTGAACCTCTTAGAGCC	894
OY	301	ArgLYaLeuAlaARgSerLeuAlaIleleuLeuSerAlaPheAlaIleCyETTPAlaPro	320
Db	895	AGGAGATTAGCCAACTCACTGCGCAATCTCTTAAAGGGATTTTGGCTTGTGGCGCTCA	954
OY	321	TyrCyLeuPheThrIleValLeuSerThrTyPProARgThnGluARgProLYaSerVal	340
Db	955	TATTCCTCGTTCACAAATGCTCTTTCATTTATTTCTCAGCAACAAGCTCTTAATCAGTT	1014
OY	341	TrpTySerIleAlaPheTrpLeuGlnTrpPheAsnSerPheValAsnProPheLeuTy	360
Db	1015	TGGTATAGAAATTCATTTTGGCTTCAGGTTCATATCTTTGTCAATCCTCTTTGTAT	1074
OY	361	ProLeuCyValHlaRgARgPheGlnLYaAlaPheTrpLYaIleLeuCyValThLYaTrp	380
Db	1075	CCATTTGTCTCAAAAGCCCTTTCAAAGCCCTTCTTGAAAATAATTTGTATAAAAAGCA	1134
OY	381	ProAlaLeuSerGln---AsnGlnSerValSerSer	391
Db	1135	CCTTACCATCAACAACAGCTGGCTGAGTATCTTCT	1170

QY 264 SerLeuArgThrHisMetAsnSerSerIleThrAlaPheIleValGlySerPheTrpArg 283
DB 1245 -----TACTCAAGAGGGGCTCAAGCCGTGC 1271
QY 284 SerGluSerAlaLeuArgGlnArg-----GluTyr 294
DB 1272 GCGTCTCGGCTCATGGAGAAAGCCATGAAAGATGTCCTCCAGAGCTTCACCCAGCGC 1331
QY 295 AlaGluLeuLeuArgGlyArgGlyLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPhe 314
DB 1332 TTTCGGCTGTCTCGGAGCAAGAAAGTGGCCAAAGTCGTCGGCGGTATCTGTGAGCATCTT 1391
QY 315 AlaIleCysTrpAlaProTyrCysLeuPheThrIleValLeuSerThrTyrProArgThr 334
DB 1392 GGGCTGTCTGGGCCCCCATACAGCTGTGATGATATCCGGCGCCGCTGCACATGGCCAC 1451
QY 335 GluArgProIysSerValTrpTyrSerIleAlaPheTrpLeuGlnTrpPheAsnSerPhe 354
DB 1452 TGGCTCCCT---GACTACTGTGTAACAACCTCTTGGCTCTGTGGGCAACTCGGCT 1508
QY 355 ValAsnProPheLeuTyrProLeuCysHisArgArgPheGlnIleValPheTrpIle 374
DB 1509 GTCAACCTGTCTCTACCTGTGTGCAACAAGCTTCGGCGGCTTCACCAAGCTG 1568
QY 375 LeuCysValThrIys-----Trp----- 380
DB 1569 CTCTGCCCCCAAGAACTCAAAATCCAGCCCAAGCTCCCTGGAGCACTGTGAAAGTGA 1628
QY 381 -----ProAlaLeuSerGlnAsnGlnSer 388
DB 1629 GTGGCCCAACAAGCTCCCTCAAGCCAGCTCTCTCAAGCCCAAGTCT 1676
RESULT 6
US-09-167-354-5
; Sequence 5, Application US/09167354A
; Patent No. 6136559
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Exlander, Mark
; APPLICANT: Pyatt, Jayashree
; APPLICANT: Huvaf, Arne
; TITLE OF INVENTION: DNA ENCODING A HUMAN HISTAMINE RECEPTOR OF THE H3
; FILE REFERENCE: JMW
; CURRENT APPLICATION NUMBER: US/09/167,354A
; CURRENT FILING DATE: 1998-10-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 2699
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CDNA.
US-09-167-354-5
Alignment Scores:
Pred. No.: 4,9e-65 Length: 2699
Score: 724.50 Matches: 171
Percent Similarity: 48.908 Conservative: 52
Best Local Similarity: 37.508 Mismatches: 118
Query Match: 35.384 Indels: 115
DB: 3 Gaps: 12
US-10-626-445-8 (1-391) x US-09-167-354-5 (1-2699)
QY 18 LeuAlaPheLeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValAlaIle 37
DB 407 CTGGCCGCGCTCATGGCTGTCTCATCGGCAACGCTGTGGCAACGCGTGTGATG 466
QY 38 LeuAlaPheValValAsnArgAsnLeuAlaGHisArgSerAsnTyrPhePheLeuAsnLeu 57
DB 467 CTTCGCTTGTGTGGCCGATCTGAGCCTTCGACCCAGAACACTTCTTCTGTCTCAACCTTC 526

QY 58 AlaIleSerAsnProPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeu 77
DB 527 GCCATCTCCGACTTCTCTGTCGGCCCTTCTGTCATCCACATGTATGATACCTTACCTGCTG 586
QY 78 Phe---AsnTrpAsnPheGlySerGlyIleCysMetPheTrpLeuIleThrAspTyrLeu 96
DB 587 ACAGGCCCTGACCTTGCGCCGGGCTCTGCAAGCTGTGGCTGTGGATGAGCACTTAC 646
QY 97 LeuCysThrAlaSerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerVal 116
DB 647 CTGTCCACTCTCTGCTTGCCTTCAACATCGTGCTCATAGTACAGACCGCTTCTGTCGGTC 706
QY 117 SerAsnAlaValSerTyrArgAlaGlnHisThrGlyIleMetIleValAlaGlnMet 136
DB 707 ACCCGAGCGGTCTCATACCGGGCCAGCAGGGGTGACACCGCGCGGCACTGGGGAAGTGG 766
QY 137 ValAlaValAlaTrpIleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAsnSer 156
DB 767 CTGCTGTGTGGTGTGCTGACCTTCTGCTGTAGGAGCAAGCCATCTG-----AGC 817
QY 157 TrpIys-----AsnSerThrAsnThrIysAspCysGluProGlyPheVal 171
DB 818 TGGAGTACCTGTCCGGGGGAGCTCATCCCGAGGGCACTGTATGCGGAGTTCTTC 877
QY 172 ThrGluTrpTyrIleLeuThrIleThrMetLeuGlnPheLeuProValIleSer 191
DB 878 TACAACGTGTACTTCTCATACAGGCTTCACCTCGAGTCTTTCACCCCTTCTCTCAGC 937
QY 192 ValAlaTyrPheAsnValGlnIleTyr----- 200
DB 938 GTCACTTCTTTAACCTAGCATTTACTTGAACATTCAGAGGCGACCCGCTCGGCTG 997
QY 200 ----- 200
DB 998 GATGGGGCTCGAGAGGACCGGCCCCGAGCCCTCCGAGGCCCAAGCCCTCACCACCC 1057
QY 201 -----TrpSerLeuTrpIysArgArgAlaLeuSerArgCysProSerHis 215
DB 1058 CCACCGCTGTGCTGTGGGCTGTGTGGCAGAAAGGGGCAAGGGGAGCCATGCGCTGAC 1117
QY 216 -----AlaGlyPheSerThrThrsSer 223
DB 1118 AGTATGGGGTGTGGAGCGGCGCTAGGCGCTGAGCGGAGGAGCAACCTCGGGGGT 1177
QY 224 SerAlaSerGlyHisIleHisArgAlaGlyValAlaCysArgThrSerAsnProGlyLeu 243
DB 1178 GCGGTGGGGGCT-----GGTCCGTGGCTTACCCACTCCAGCTCGGCTG 1222
QY 244 LysGluSerAlaAlaSerArgHisSerGlnSerProArgArgLysSerSerIleLeuVal 263
DB 1223 -----AGTCTCTGAGGGGCACTGAGAGCGCGCC 1252
QY 264 SerLeuArgThrHisMetAsnSerSerIleThrAlaPheIleValGlySerPheTrpArg 283
DB 1253 -----TACTCAAGAGGGGCTCAAGCCGTGC 1279
QY 284 SerGluSerAlaLeuArgGlnArg-----GluTyr 294
DB 1280 GCGTCTCGGCTCGCTTGAAGAAGGCAATGAAGATGTCCTCCAGAGCTTCACCCAGCGC 1339
QY 295 AlaGluLeuLeuArgGlyArgGlyLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPhe 314
DB 1340 TTTCGGCTGTCTCGGAGCAAGAAAGTGGCAAGTGTGCTGCGCGTATCATGTAGAGCATCTT 1399
QY 315 AlaIleCysTrpAlaProTyrCysLeuPheThrIleValLeuSerThrTyrProArgThr 334
DB 1400 GGGCTGTCTGGGCCCCATACAGCTGTGTGATGATCATCGGCGCGCTGCATGGCCAC 1459
QY 335 GluArgProIysSerValTrpTyrSerIleAlaPheTrpLeuGlnTrpPheAsnSerPhe 354
DB 1460 TGGCTCCCT---GACTACTGTGTAACAACCTCTCTTGTGCTCTGTGGCCAACTCGGCT 1516

QY 355 ValAsnProPheLeuTyProLeuCyHisArgArgPheGlnValAspThrPheVal 374
DB 1517 GTCAACCTGTCTCTTACCTCTGTGACCAAGCTTCGCGGGGCTTCAACCAAGCTT 1576
QY 375 LeuCyValThrLys-----TTP----- 380
DB 1577 CTCTGCCCCCAAGAGCTCAAAATCCAGCCCAAGCTCCCTGAGCACTGCTGAAAGTGA 1636
QY 381 -----ProAlaLeuSerGlnAsnGlnSer 388
DB 1637 GTGGCCCAACAGAGCTCCCTCAGCCAGCGCTCTCAGCCCAAGTCT 1684

RESULT 7
US-09-642-855-5
Sequence 5, Application US/09642855
Patent No. 643743
GENERAL INFORMATION:
APPLICANT: Lovenberg, Timothy
APPLICANT: Brander, Mark
APPLICANT: Pyatt, Jayashree
APPLICANT: Huvar, Arne
TITLE OF INVENTION: DNA ENCODING A HUMAN HISTAMINE RECEPTOR OF THE H3
TITLE OF INVENTION: SUBTYPE
FILE REFERENCE: JMW
CURRENT APPLICATION NUMBER: US/09/642,855
CURRENT FILING DATE: 2000-08-21
PRIOR APPLICATION NUMBER: 09/167,354
PRIOR FILING DATE: 1998-10-06
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 2699
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: CDNA
US-09-642-855-5

Alignment Scores:
Pred. No.: 4,9e-65 Length: 2699
Score: 724.50 Matches: 171
Percent Similarity: 48.908 Conservative: 52
Best Local Similarity: 37.504 Mismatches: 118
Query Match: 35.384 Indels: 115
Gaps: 12

US-10-626-445-8 (1-391) x US-09-642-855-5 (1-2699)

QY 18 LeuAlaPheLeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIle 37
DB 407 CTGGCCGGGCTCATGGCGCTGCATCGGCCCAAGCTGTGGGCAACGGCGTGTCTATG 466
QY 38 LeuAlaPheValValAspArgAsnLeuArgHisArgSerAsnTyrrPhePheLeuAsnLeu 57
DB 467 CTGCGCTTGTGGCCCACTCGAGCTCCGCAACCAACAACCTTCTTCCGCTCAACCTC 526
QY 58 AlaIleSerAspPheLeuValGlyLeuIleSerIleProLeuTyrrIleProHisValLeu 77
DB 527 GCCATCTCCGACTCTCTCGTGGCGCTTCTGCATCCCATGTATGATACCTGATCGTGTG 586
QY 78 Phe--AsnTrpAsnPheGlySerGlyIleCyMetPheTrpLeuIleThrAspTyrrLeu 96
DB 587 ACAGGCGCGTGGACCTTGGCGCGGGGCTGTGCAACCTGTGGTGTAGTGAAGTACCTG 646
QY 97 LeuCyThrAlaSerValTyrrAsnIleValLeuIleSerTyrrAspArgTyrrGlnSerVal 116
DB 647 CTGTGACACTCTCTGCTTCAACATCGTGTATCATGATGATGATGATGATGATGATG 706
QY 117 SerAsnAlaValSerTyrrArgAlaGlnHisThrGlyIleMetLysIleValAlaGlnMet 136
DB 707 ACCCGAGCGGTCTCATACCGGGGCGGAGGTGACACCGCGGGGCGAGTGGCGGAAGATG 766
QY 137 ValAlaValTrpIleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSer 156

DB 767 CTGCTGTGTGGGTGTGGCTCTTCTGTGTCAGGACCAAGCTCTCTG-----AGC 817
QY 157 TrpLys-----AsnSerThrAsnThrLysAspCysGlnProGlyPheVal 171
DB 818 TGGAGTACCTGTCCGGGGGAGCTCATCCCGAGGGCCACTGTATGCCGATCTTC 877
QY 172 ThrGlyTrpTyrrIleLeuThrIleThrMetLeuGlnPheLeuProValIleSer 191
DB 878 TCAACTGTATCTTCTCATACAGGCTTCAACCTTGAAGTCTTTAGCCCTTCTCAGC 937
QY 192 ValAlaTyrrPheAsnValGlnIleTyrr----- 200
DB 938 GTCACTCTTTTAACTCAGACATCTACATGAACATCCAGAGGCAACCGCTCCGAGT 997
QY 200 ----- 200
DB 998 GATGGGCTTCGAGAGGACCGGCGCCGAGCCCTCCGAGGCCAGCTTACCAACC 1057
QY 201 -----TrpSerLeuTrpLysArgAlaLeuSerArgCysProSerHis 215
DB 1058 CCAGCCCTGTGCTGTGGGGCTGTGCGAAGAGGGCAGGGAGGCCATGCCGTGCAC 1117
QY 216 -----AlaGlyPheSerThrThrSerSer 223
DB 1118 AGGTATGGGTGGGTGAGGCGGCGGCTGAGGCGGAGGCGGAGGAGGAGCCCTCGGGGT 1177
QY 224 SerAlaSerGlyHisIleuHisArgAlaGlyValAlaCysArgThrSerAsnProGlyLeu 243
DB 1178 GCGGTGGGGGCT-----GGCTCGGTGCTTCAACCACTTCAGCTCCGCTCGGC--- 1222
QY 244 LysGluSerAlaAlaSerArgHisSerGluSerProArgArgLysSerSerIleLeuVal 263
DB 1223 -----ACCTCTCGAGGGGCACTGAGAGCGCGC----- 1252
QY 264 SerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySerPheTyrrArg 283
DB 1253 -----TCACTCAAGAGGGGCTTCAAGCGCTG 1279
QY 284 SerGluSerAlaAlaLeuArgGlnArg-----GluTyrr 294
DB 1280 GCGCTCTGCGCTCTGCTGAGAGGCGCATGAAGATGTGTCTCCAGAGCTTCAACCGAGCG 1339
QY 295 AlaGluLeuLeuArgGlyArgLysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPhe 314
DB 1340 TTTCGGCTGTCTCGGACAGGAAGTGGCCAGTGTGCTGCTGCTGCTGCTGCTGCTG 1399
QY 315 AlaIleCyrrAlaAlaProTyrrCysLeuPheThrIleValIleLeuSerThrTyrrProArgThr 334
DB 1400 GGGCTGTGCGGCGCCATACAGCTGTGATGATCATCCGGGCGGCTGCAATGCGCAC 1459
QY 335 GluArgProLysSerValTrpTyrrSerIleAlaPheTrpLeuGlnTrpPheAsnSerPhe 354
DB 1460 TGGCTGCTCT--GACTACGTGATGCAAACTCTTGTGCTCTGTGGGCAACTGGGCT 1516
QY 355 ValAsnProPheLeuTyrrProLeuCyHisArgArgPheGlnValAspThrPheVal 374
DB 1517 GTCAACCTGTCTCTTACCTCTGTGACCAAGCTTCGCGGGGCTTCAACCAAGCTT 1576
QY 375 LeuCyValThrLys-----TTP----- 380
DB 1577 CTCTGCCCCCAAGAGCTCAAAATCCAGCCCAAGCTCCCTGAGCACTGCTGAAAGTGA 1636
QY 381 -----ProAlaLeuSerGlnAsnGlnSer 388
DB 1637 GTGGCCCAACAGAGCTCCCTCAGCCAGCGCTCTCAGCCCAAGTCT 1684

RESULT 8
US-09-642-514-5
Sequence 5, Application US/09642514
Patent No. 6437100
GENERAL INFORMATION:
APPLICANT: Lovenberg, Timothy

APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Jean M. Silveri
 REGISTRATION NUMBER: 39,030
 REFERENCE/DOCKET NUMBER: MNT-032
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 742-7400
 TELEFAX: (617) 742-4214
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1335 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 FEATURE: CDNA
 NAME/KEY: CDS
 LOCATION: 1..1335
 US-08-985-090-3

Alignment Scores:
 Pred. No.: 2,5e-65 Length: 1335
 Score: 722.50 Matches: 165
 Percent Similarity: 50.824 Conservation: 51
 Best Local Similarity: 38.824 Mismatches: 116
 Query Match: 35.284 Indels: 93
 DB: 2 Gaps: 10

US-10-626-445-8 (1-391) x US-08-985-090-3 (1-1335)

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QY 18 LeuAlaPheLeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIle 37
DB 109 CTGGCGCGGCTCATGCGCGTCTCATCGGCGCACCGCTGCGGCAACCGCTGCTCAG 168
QY 38 LeuAlaPheValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeu 57
DB 169 CTGGCGCTTCTGCGCGACGACGACCTCCGACCAAGAACACTTCTTCCGCTCAACCTC 228
QY 58 AlaIleSerAspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeu 77
DB 229 GCCATCTCCGACTCTCTGCTGCGCGCTTCTGCTCATCTCCACTGATGATCCCTACGCTG 288
QY 78 Phe---AsnTyrAsnPheGlySerGlyIleCysMetPheTyrPheLeuThrAspTyrLeu 96
DB 289 ACAGGCGCGTGAACCTTCCGCGCGGCTCTGCAAGCTGCTGCTGATGAGACTTACTG 348
QY 97 LeuCythrAlaSerValTyrAsnIleValIleIleSerTyrAspArgTyrGlnSerVal 116
DB 349 CTGTCACTCTCTGCTGCTTCAACATCGCTCATCAGCTACGACCGCTTCCGCTGCTG 408
QY 117 SerAsnAlaValSerTyrArgAlaGlnHisThrGlyIleMetLysIleValAlaGlnMet 136
DB 409 ACCGAGGCGCTCATACCGGCGCGGACGAGGTGACACCGCGCGGCACTGCGGAGATG 468
QY 137 ValAlaValTyrIleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSer 156
DB 469 CTGCTGCTGTGGTGTGCTGCTCTCTGCTGACGACGACGACCTG-----ACG 519
QY 157 TrpLys-----AsnSerThrAsnThrLysAspCysGluProGlyPheVal 171
DB 520 TGGGAGTACTGTGCGGCGGAGCTCATCCCGGAGGCGACACTGATCCGAGTTCTTC 579
QY 172 ThrGluTyrPyrIleLeuThrIleThrMetLeuLeuGluPheLeuLeuProValIleSer 191
DB 580 TACAACGTGTACTTCTCATACGCGCTTCCACCTGAGATTCTTTAAGCTTCTTCACAC 639
QY 192 ValAlaTyrPheAsnValGlnIleTyr----- 200
DB 640 GTCACTCTTAACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACT 699
QY 200 ----- 200

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DB 700 GATGGGCTCGAAGGACACCGCGCCGAGCCCTCCGAGAGCCACCTTCAACACCC 759
QY 201 -----TrpSerLeuTyrPyrArgArgAlaLeuSerArgCysProSerHis 215
DB 760 CCAACCGCTGCTGCTGCGGCTGCTGCTGCGAGAGGGGACGGGAGCCATGCCCTGCAC 819
QY 216 -----AlaGlyPheSerThrSerSer 223
DB 820 AGGTATGGGTGGGTGAGGCGCGCCGTAAGCGCTGAGGCGGGGAGGCAACCTCGGGGGT 879
QY 224 SerAlaSerGlyHisIleuHisArgAlaGlyValAlaCysArgThrSerAsnProGlyLeu 243
DB 880 GCGGTGGGGG-----GCTCCGCTGCTTCAACCACTCCGCTCCGCGC--- 924
QY 244 LysGluSerAlaAlaSerArgHisSerGluSerProArgArgLysSerSerIleLeuVal 263
DB 925 -----AGCTCTCGAGGGGCACTGAGAGCGCGC----- 954
QY 264 SerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySerPheTyrArg 283
DB 955 -----TCACTCAAGAGGGGCTCCAAGCGCTG 981
QY 284 SerGluSerAlaAlaLeuArgGlnArg-----GluTyr 294
DB 982 GCGTCTCGGCTCACTGAGAGGCGCATGAGATGTCTCCAGACTTCAACCGACGCG 1041
QY 295 AlaGluLeuLeuArgGlyArgPheLeuAlaArgSerLeuAlaIleLeuSerAlaPhe 314
DB 1042 TTTCGGCTGTCTCGGACAGGAAAGTGGCGTGCCTGCGCGCTCATCTGAGCATCTTT 1101
QY 315 AlaIleCythrAlaProTyrCysLeuPheThrIleValIleLeuSerThrTyrProArgThr 334
DB 1102 GGGCTGTGTTGGGCGCCATACGACGCTGATGATCATCCGCGCGCGCATGGCGAC 1161
QY 335 GluArgProLysSerValTyrPyrSerIleAlaPheTyrPheGlnTyrPheAsnSerPhe 354
DB 1162 TCCGTCCTCT---GACTACTGTTACGAAACCTCTTCTGCTCTGCGCGCAACTCGGCT 1218
QY 355 ValAsnProPheLeuTyrProLeuCyHisArgAspPheGlnLysAlaPheTyrPheIle 374
DB 1219 GTCAACCTGCTCTTCACTCTGTCGACCAACAGCTTCCGCGCGCTTCAACCAAGCTG 1278
QY 375 LeuCyValThrLys 379
DB 1279 CTCTGCCCCCAGAG 1293

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RESULT 10
 US-09-165-543-3
 Sequence 3, Application US/09165543
 Patent No. 6093545
 GENERAL INFORMATION:
 APPLICANT: Andrew D.J. Goodearl and Sandra Gluckman
 TITLE OF INVENTION: Muscarinic Receptors and Uses Therefor
 NUMBER OF SEQUENCES: 39
 CORRESPONDENCE ADDRESS:
 ADDRESSES: LAHIVE & COCKFIELD, LLP
 STREET: 28 State Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/165,543
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/042,780
 FILING DATE:

Oy		201	-----TpsSerLeuThrPyrValArgAlaIleuSerArgCysProSerHis	215
Db		760	CCACCGCTGGCTGCTGGCGGTGCTGGAGAAAGGGGCACGGGAAGGCCATGCGGTGCAC	819
Oy		216	-----AlaGlyPheSerThrThrsSer	223
Db		820	AGCATATGGAGTGAGTCAGAGCGCGCTAGCGCTGAGCGGGGAGGCCACCTCCGGAGGT	879
Oy		224	SerLaserGIYHLSLENI:ARGAlaGlyValAlaCysARGThrSerAsnProGlyLeu	243
Db		880	GCGCGTGGGGC-----GCTCGGTGGCTTACCACCACTCCAGCTCCGGC---	924
Oy		244	LysGIuSerLeuAalaSerArgHisSerGIuSerProArgArgLysSerSerileuVal	263
Db		925	-----ACGTCTCGAGGGGCACTAGAGCGCGC-----	954
Oy		264	SerLeuArgThrHisMetAsnSerSerileThrAlaPheLysValGlySerPheTrpArg	283
Db		955	-----TCACTAAGAAGGGCTCCAAAGCGTCG	981
Oy		284	SerGIuSerAlaAlaLeuArgGlnArg-----GluYr	294
Db		982	GCGCTCTGGCTGCTACTAGAGAACGCGTAGAATGTGTCCCAAGCTTCAACCGAGCG	1044
Oy		295	AlaGIuLeuLeuArgGlyArgLysLeuAlaArgSerLeuAlaIleLeuSerAlaPhe	314
Db		1042	TTCGCGCTGTCTCGGACAGAAAGATGGCCAGATCGCTGGCGCTCATCTGTAAGCATCTTT	1100
Oy		315	AlaIleCysTrpAlaProYrCysLeuPheThrIleValLeuSerThrYrProArgThr	334
Db		1102	GCGCTGTGTCGGCCCCCATACAGCTGTGTATGATCATCGGCGCGCTGCATGCGCAC	1166
Oy		335	GIuArgProLysSerValTrpYrSerIleAlaPheTrpLeuGlnTrpPheAsnSerPhe	354
Db		1162	TGCGTCCCT--GACTACTGGTACGAACCTCTTGTGGCTTCGTGGGCCAACTCGGCT	1216
Oy		355	ValAsnProPheLeuYrProLeuCysHisArgArGPheGlnLysAlaPheTrpLysIle	374
Db		1219	GTCACCTGTCTCTTACCTCTGTGACACACAGCTTCCGCGGCTTACCAAGCTG	1277
Oy		375	LeuCysValThrLys	379
Db		1279	CTCTGCCCCCAGAAAG	1293
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RESULT 11				
US-09-167-354-6				
Sequence 6, Application US/09167354A				
Patent No. 6136559				
GENERAL INFORMATION:				
APPLICANT: Lovenderg, Timothy				
APPLICANT: Erlander, Mark				
APPLICANT: Pyati, Jayashree				
APPLICANT: Huvar, Arne				
TITLE OF INVENTION: DNA ENCODING A HUMAN HISTAMINE RECEPTOR OF THE H3				
FILE REFERENCE: UMW				
CURRENT APPLICATION NUMBER: US/09/167,354A				
CURRENT FILING DATE: 1998-10-07				
NUMBER OF SEQ ID NOS: 8				
SOFTWARE: PatentIn Ver. 2.0				
SEQ ID NO 6				
LENGTH: 1335				
TYPE: DNA				
ORGANISM: Artificial Sequence				
FEATURE:				
OTHER INFORMATION: Description of Artificial Sequence: CDNA				
US-09-167-354-6				
<hr/>				
Alignment Scores:				
Pred. No.:	2.5e-65	Length:	1335	
Score:	722.50	Matches:	165	
Percent Similarity:	50.82%	Conservative:	51	
Best Local Similarity:	38.82%	Mismatch:	116	

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Query Match: 35.28% Indels:
DB: 3 Gaps:
US-10-626-445-8 (1-391) x US-09-167-354-6 (1-1335)

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Oy	18	LeuAlaPheIleuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValAlaIle	37
Db	109	CTGGCCGGCGCTCAATGGCCGTCTACTGTCGGGCCACCGTGTGGGAAAGCCTGTGCATG	168
Oy	38	LeuAlaPheValValAspArgAnuLeuArgHisArgSerAsnTyrPhePheLeuAnuLeu	57
Db	169	CTCCGCTCTGTGGCCGCACTCCGAGCCTCCGACCAGAACAAATTCTCTCTGTCAACCTC	228
Oy	58	AlaIleSerAspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeu	77
Db	229	GCCATCTCCGACTTCTCTGTGGCGCCTTGTCGATCCCATGTATGTAACCTTACGTGCTG	288
Oy	78	Phe---AsnTyrAsnPheGlySerGlyIleCyseMetPheTyrPheIleThrAspTyrLeu	96
Db	289	ACAGGCGCGCTGAACCTTGCGCGGGGCGCTGTGCAGAAGCTGTGCTGTGATGACATCTG	348
Oy	97	LeuCysThrAlaSerValTyrAsnIleValLeuIleSerTyrAspArgTyrIleSerVal	116
Db	349	CTGTGCACCTCTCTGTCCCTTCAACATCGTGTCTCATCACATAAGACCGCTCTGTCCGCTC	408
Oy	117	SerAsnAlaValSerTyrArgAlaGlnHisThrArgIleMetLysIleValAlaIleMet	136
Db	409	ACCCGAGGGGTCTCAATACCGGGCCCCAGAGGCTGACACGGCGGGCAGTGGGAAAGATG	468
Oy	137	ValAlaValTyrPileLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSer	156
Db	469	CTGCTCGATGTGGGTCTGCGCTCTCTCTGCTGTATCGGACAGCAGCATCTG-----AGC	519
Oy	157	TTrpLys-----AsnSerThrAsnThrLysAbpCysGluProGlyPheVal	171
Db	520	TGGGAGTCACTGTCCGGGGGAGCGCTCATCCCGAGGGCCACTGTATGCSGAGTTCTTTC	579
Oy	172	ThrgIuTrrTyrlIeLeuThrIleThrMetLeuLeuGluUpheLeuLeuProValIleSer	191
Db	580	TACAACGTGTACTTCTCTATCATCAGCGCTTCACCTGTGAAGTTCTTTAAGCCTTCTCTACGC	639
Oy	192	ValAlaTyrPheAsnValGlnIleTyr-----	200
Db	640	GTCACACTTCTTTAACCTCAGCATGTACCTGAACATCAGAGCGGACCGCCTCCGGCTG	699
Oy	200	-----	200
Db	700	GATGGGGCTGAGAGGACGCGGCCCGGAGCCCTCCCGAGGCCAGCCCTCACACACC	759
Oy	201	-----TrrSerLeuTrrLysArgAlaIleuSerArgCysProSerHis	215
Db	760	CCACCGCTGCTGTGTGGGCTGTGTGGACAGAAAGGGACAGGGAGAGCCATGCGCTGCAC	819
Oy	216	-----AlaGlyPheSerThrThrSerSer	223
Db	820	AGGTATGGGGTGGGGTAGGCGCGCGCTAGCGCTGAGCGCGGGAGAGGCAACCTCGGGGGT	879
Oy	224	SerAlaSerGlyHisLeuHisArgAlaGlyValAlaCysArgThrSerAsnProGlyLeu	243
Db	880	GGCGGTGGGGGC-----GGCTCCGTGGCTTCAACCCATCTCAAGCTCCGGGC---	924
Oy	244	LysGluSerAlaAlaSerArgHisSerGluSerProArgArgLysSerSerIleLeuVal	263
Db	925	-----ACTCTCTCGAGGGGACATGAGGCGCGCC-----	954
Oy	264	SerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySerPheTrrArg	283
Db	955	-----TCATCTCAAGAGGGGCTCCAAAGCCCTCG	981
Oy	284	SerGluSerAlaAlaLeuArgGlnArg-----GluTyr	294
Db	982	GGCTTCTGGCTCGCTGTGAAGAGGCAATGAAGATGTGTCCCAAGCTTACCCAGGCC	1041

Qy	225	1AG1G1LLEuLeuArg1YArpYsLeu1AaSGSerLeu1AlleuLeuSer1Aape	31
Db	1042	TTTGGCTGTCTCTGGGACAGAAAGTGGCAAGTGGCTGGCCGTCACTGTGAGCATCTTT	110
Qy	315	Ala1leCYsTPr1A1ProTYrCYsLeuPheThr1IleVal1LeuSerThrTYrProArgThr	334
Db	1102	GGGCTCTGTCTGGCCCATACAGCTGTGATGATCATCTCGGAGCCGCTGGCATGGCCAC	116
Qy	335	GIuAArgProLYsSerVal1TrpTYrSer1IleAlaPheTrpLeuGln1TrPheAnsSerPhe	354
Db	1162	TGCGTCCCT---GACTACTGGTACAAACCTCTCTGGCTCTGTGGGCCCACTGGCT	121
Qy	355	Val1aAnProPheLeuTYrProLeuCYsHisArgArGArPheGln1IleVal1ApeTrpLYsIle	374
Db	1219	GTCACACCTGTCTCTTACCTCTGTGTCAGCCACACACAGCTTCGGCGGCTTCACCAAGCTG	127
Qy	375	LeuCYsVal1ThrLYs	379
Db	1279	CTCTGCCCCCAGAAAG	1293
RESULT 12			
US-09-642-855-6		Sequence 6, Application US/09642855	
		Patent No. 6413743	
GENERAL INFORMATION:			
		APPLICANT: Lovenberg, Timothy	
		APPLICANT: Erlender, Mark	
		APPLICANT: Fyali, Jayashree	
		APPLICANT: Huvar, Arne	
		TITLE OF INVENTION: DNA ENCODING A HUMAN HISTAMINE RECEPTOR OF THE H3	
		TITLE OF INVENTION: SUBTYPE	
		FILE REFERENCE: JMW	
		CURRENT APPLICATION NUMBER: US/09/642, 855	
		CURRENT FILING DATE: 2000-08-21	
		PRIOR APPLICATION NUMBER: 09/167,354	
		PRIOR FILING DATE: 1998-10-06	
		NUMBER OF SEQ ID NOS: 8	
		SOFTWARE: PatentIn Ver. 2.0	
		SEQ ID NO 6	
		LENGTH: 1335	
		TYPE: DNA	
		ORGANISM: Artificial Sequence	
		FEATURE:	
		OTHER INFORMATION: Description of Artificial Sequence: CDNA	
		US-09-642-855-6	
Alignment Scores:			
	Pred. No.:	2,5e-65	1335
	Score:	722.50	Matches: 165
	Percent Similarity:	50.82%	Conservative: 51
	Best Local Similarity:	38.82%	Mismatches: 116
	Query Match:	35.28%	Indels: 93
	DB:	3	Gaps: 10
US-10-626-445-8 (1-391) x US-09-642-855-6 (1-1335)			
Qy	18	LeuAlaPheLeuMetSerSerPheAlaPheAlaIleMetValGIYAsnaIaValIle	37
Db	109	CTGGCGCGGCTCATAGCGGTGCTCATCTGGGCCACAGTGCTGGGCAACCGCTGGTCAATG	168
Qy	38	LeuAlaPheValIaValAspArgAsnLeuArgHisArgSerAsnTYrPhePheLeuAnleu	57
Db	169	CTCGCTCTGTGGCGGACTCGAGCTCGAGCTCCGCAACCCAGAACCACTTCTTCTGCTCAACCTC	228
Qy	58	AlaIleSerAspPheLeuValGIYLeuIleSer1IleProLeuTYrIleProHisValLeu	77
Db	229	GCAATCTCCGACTTCTCTGTGGCGGCTTTCGATCCCACTGTATAGCTTACCGTGCTG	288
Qy	78	Phe---AsnTrpAsnPheGlySer1LYleCYsMetPheTrpLeu1IleThrAspTYrLeu	96
Db	269	ACAGGCCCGCTGACCTTGGCGGGGCTCTTCACAGCTGTGGTGTGATGGACTACCTG	348

Db	349	CTGTGACCTCTCTCTGCTTCAACAATGAGTCTCATACACTACAGACCGCTCTCTGCTGATC	117	SeaaanaValaSerTyrArgAlaGlnHisThrGlyIleMetLeuValAlaGlnMet	136
Qy	117	SeaaanaValaSerTyrArgAlaGlnHisThrGlyIleMetLeuValAlaGlnMet	117	SeaaanaValaSerTyrArgAlaGlnHisThrGlyIleMetLeuValAlaGlnMet	136
Db	409	ACCGAGAGGATCTATACCGGGCCACGAGGGGTGACAGCGCGGGGACGTGGAGAAATG	409	ACCGAGAGGATCTATACCGGGCCACGAGGGGTGACAGCGCGGGGACGTGGAGAAATG	468
Qy	137	ValAlaValTrrPileLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSer	137	ValAlaValTrrPileLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSer	156
Db	469	CTGCTGTGATGGATGCTGAGCTTCTCTGTGTACACGACAGGACATCTCTG	469	CTGCTGTGATGGATGCTGAGCTTCTCTGTGTACACGACAGGACATCTCTG	519
Qy	157	TrpLys-----AsnSerThrAsnThrLysAspCysGluProGlyPheVal	157	TrpLys-----AsnSerThrAsnThrLysAspCysGluProGlyPheVal	171
Db	520	TGGAGATACCTGTCCGGGGGAGCTCCATCCCGAGGGCCACCTGTAATGCCAGATTCTTC	520	TGGAGATACCTGTCCGGGGGAGCTCCATCCCGAGGGCCACCTGTAATGCCAGATTCTTC	579
Qy	172	ThrglutTrrYrIleLeuThrIleThrMetLeuAsnGluPheLeuProValIleSer	172	ThrglutTrrYrIleLeuThrIleThrMetLeuAsnGluPheLeuProValIleSer	191
Db	580	TACAACGTGATCTTCTCTCATACAGGCTTCCACCCGTGAGATTCTTAAGCCCTCTCTGACG	580	TACAACGTGATCTTCTCTCATACAGGCTTCCACCCGTGAGATTCTTAAGCCCTCTCTGACG	639
Qy	192	ValAlaTyrPheAsnValGlnIleTyr-----	192	ValAlaTyrPheAsnValGlnIleTyr-----	200
Db	640	GTCACCTTCTTTAACTCAGCATCTACCTGAACATCAGAGGCGCACCCGCTCCGCGCTG	640	GTCACCTTCTTTAACTCAGCATCTACCTGAACATCAGAGGCGCACCCGCTCCGCGCTG	699
Qy	200	-----	200	-----	200
Db	700	GATGGGCTCGAAGAGCAGCGGCCCCGAGCCCCCTCCGAGGCCACGCTTACCAACC	700	GATGGGCTCGAAGAGCAGCGGCCCCGAGCCCCCTCCGAGGCCACGCTTACCAACC	759
Qy	201	-----TrrSerIleuTrrLysArgAlaLeuSerArgCysProSerHis	201	-----TrrSerIleuTrrLysArgAlaLeuSerArgCysProSerHis	215
Db	760	CCACCGCTCGGCTGTGTGGGGCTGCTGGAGAAAGGGGACCGGGAGGCCATGCTCGTGAC	760	CCACCGCTCGGCTGTGTGGGGCTGCTGGAGAAAGGGGACCGGGAGGCCATGCTCGTGAC	819
Qy	216	-----AlaGlyPheSerThrThrSerSer	216	-----AlaGlyPheSerThrThrSerSer	223
Db	820	AGTATAGGAGTGGGTAGAGCGGCGGTAGCGCTGAGCGCGGGAGAGCACCCTCCGAGGGT	820	AGTATAGGAGTGGGTAGAGCGGCGGTAGCGCTGAGCGCGGGAGAGCACCCTCCGAGGGT	879
Qy	224	SerIaSerArgIHisLeuHisValArgAlaGlyAlaCysAlaGlnThrSerAsnProGlyLeu	224	SerIaSerArgIHisLeuHisValArgAlaGlyAlaCysAlaGlnThrSerAsnProGlyLeu	243
Db	880	GCGGATGGGGGCT-----GGCTCGGTGGCTTACCCACCTCCAGCTCCGAGC---	880	GCGGATGGGGGCT-----GGCTCGGTGGCTTACCCACCTCCAGCTCCGAGC---	924
Qy	244	LysGluSerAlaAlaSerArgHisSerGluSerProAlaArgLysSerSerIleLeuVal	244	LysGluSerAlaAlaSerArgHisSerGluSerProAlaArgLysSerSerIleLeuVal	263
Db	925	-----ACCTCTCGAAGGGGACCTAGAGGCCGCC-----	925	-----ACCTCTCGAAGGGGACCTAGAGGCCGCC-----	954
Qy	264	SerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySerPheTrrArg	264	SerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySerPheTrrArg	283
Db	955	-----TCATCAAGAGGGGCTCCAGGCCGCTCG	955	-----TCATCAAGAGGGGCTCCAGGCCGCTCG	981
Qy	284	SerGluSerAlaAlaLeuArgGlnArg-----GluTyr	284	SerGluSerAlaAlaLeuArgGlnArg-----GluTyr	294
Db	982	GCGTCTCGGCTCGCTCGTAGAAGGCGATGAAGATGATGTGCCAAGCTTCAACCAGGGC	982	GCGTCTCGGCTCGCTCGTAGAAGGCGATGAAGATGATGTGCCAAGCTTCAACCAGGGC	1041
Qy	295	AlaGluLeuLeuArgGlyArgLysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPhe	295	AlaGluLeuLeuArgGlyArgLysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPhe	314
Db	1042	TTTGGGCTGTCTCGGACAGAAAGATGGCCAAATGCTGGCCGATGTGAGCAATCTTT	1042	TTTGGGCTGTCTCGGACAGAAAGATGGCCAAATGCTGGCCGATGTGAGCAATCTTT	1101
Qy	315	AlaIleCysTrrAlaProTyrCysLeuPheThrIleValIleuSerThrTyrProArgThr	315	AlaIleCysTrrAlaProTyrCysLeuPheThrIleValIleuSerThrTyrProArgThr	334
Db	1102	GAGGCTGTGCTGGGCCCATACACGCTGTGATGATCATCCGGGCGCTGCGATGGCCAC	1102	GAGGCTGTGCTGGGCCCATACACGCTGTGATGATCATCCGGGCGCTGCGATGGCCAC	1161
Qy	335	GluArgProLysSerValTrrTyrSerIleAlaPheTrrPheGluGlnTrrPheAsnSerPhe	335	GluArgProLysSerValTrrTyrSerIleAlaPheTrrPheGluGlnTrrPheAsnSerPhe	354
Db	1162	TGCGTCTCT---GACTACTGGTACCAAACTTCCTTGTGCTCTGTGGGCCAACTCGGCT	1162	TGCGTCTCT---GACTACTGGTACCAAACTTCCTTGTGCTCTGTGGGCCAACTCGGCT	1218
Qy	355	ValAsnProPheLeuTyrProLeuCysHisValArgArgPheGlnLysAlaPheTrrLysIle	355	ValAsnProPheLeuTyrProLeuCysHisValArgArgPheGlnLysAlaPheTrrLysIle	374
Db	1219	GTCAACTCTGTCTTACCTCTGTGACACACACACTTCGCGCGGCTTCAACAAAGCTG	1219	GTCAACTCTGTCTTACCTCTGTGACACACACACTTCGCGCGGCTTCAACAAAGCTG	1278
Qy	375	LeuCysValThrLys 379	375	LeuCysValThrLys 379	
Db	1279	CTGTGCCCCCAGAAG 1293	1279	CTGTGCCCCCAGAAG 1293	

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; Sequence 6 Application US/09642514
; Patent No. 6437100
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Erlander, Mark
; APPLICANT: Pyati, Jayashree
; APPLICANT: Huvar, Arne
; TITLE OF INVENTION: DNA ENCODING A HUMAN HISTAMINE RECEPTOR OF THE H3
; TITLE OF INVENTION: SUBTYPE
; FILE REFERENCE: ORT1290
; CURRENT APPLICATION NUMBER: US/09/642,514
; CURRENT FILING DATE: 2000-08-21
; PRIOR APPLICATION NUMBER: US 09/167,354
; PRIOR FILING DATE: 1998-10-06
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 1335
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CDNA
US-09-642-514-6

Alignment Scores:
Pred. No.: 2.5e-65 Length: 1335
Score: 722.50 Matches: 165
Percent Similarity: 50.824 Conservative: 51
Best Local Similarity: 38.824 Mismatches: 116
Query Match: 35.284 Indels: 93
Gaps: 10

US-10-626-445-8 (1-391) x US-09-642-514-6 (1-1335)
QY 18 LeuAlaPheIleuMeSerPheAlaPheAlaIleMeValGIyAmaAlaValIle 37
Db 109 CTGGCCGGCGCTCATGCGCTGCTCATCGTGGCCACGGCTGGGCAACGGCTGTATG 168
QY 38 LeuAlaPheValAlaSPaRgaSleuAlaRgHsIarGerSeraNtyrPhePheLeuAsnLeu 57
Db 169 CTGGCTGTGTGGCGGACGCTCGGCTCGGACCCGACCAAGAACACTTCTCTGCTCACTC 228
QY 58 AlaIleSerPhePheLeuValGlyLeuIleSerIleProLeuIyrIleProHleValLeu 77
Db 229 GCCATCTCGACACTTCTCTGCTGGCGCCTTGTGCATCCGACGTAAGTAACCTTACGTGCTG 288
QY 78 Phe---AsnTrpAsnPhelGlySerGlyIleCysMetPheTrpLeuIleThrAspTyrLeu 96
Db 289 ACAGGCCCGCTGACCTTCGCGCGCGGCGCTGTGCAAGCTGTGGCTGTAAGTACTACTG 348
QY 97 LeuCySThrAlaSerValTyrAsnIleValIleuIleSerTyrAspAryrGlnSerVal 116
Db 349 CTGTGACCTCTCTGCTGCTTCAACATCGTGCTCATACGACCTTCTGCTGCTG 408
QY 117 SerAsnAlaValSerTyrRgaIaGlnHsIthrgIylIeMetLysIleValAlaGlnMet 136
Db 409 ACCCGAGCGGTCTCATACCGGGCCAGAGAGGGGTGACACGCGCGGAGGATGCGGAGATG 468
QY 137 ValAlaValTrrIleuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSer 156
Db 469 CTCTGTGTGTGTGTGTGGCTTCTGCTGTGTAAGGACCAAGCAATCTCG-----AGC 519
QY 157 TrpLys-----AsnSerThrAsnThrLysAspCysGlnProGlyPheVal 171
Db 520 TGGGAGTACCTGCGGGGGGACGCTCATCCCGAGGGCCACTGTAAGCGAGTTCTTC 579
QY 172 ThrGluTrrPyrIleLeuThrIleThrMetLeuLeuGlnPheLeuLeuProValIleSer 191
Db 580 TACAACGTGACTTCTCATCAACGGCTTCAACCTCGAGATTCTTAAAGCCCTTCTGACG 639
QY 192 ValAlaTyrPheAsnValGlnIleTyr----- 200
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QY 200 ----- 200
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QY 216 -----AlaGlyPheSerThrThrSerSer 223
Db 820 AGGTATGGGCTGAGTGGGCGCCGTAAGCCCTGAGGCGGAGGACCTTCGGGGGT 879
QY 224 SerAlaSerGlyHisLeuHisArgAlaGlyAlaCysArgThrSerAsnProGlyLeu 243
Db 880 GGGCGTGGGGGCGC-----GGCTCGGTGGCTTCAACCACTCCACTCCGGC--- 924
QY 244 LysGluSerAlaAlaSerArgHisSerGluSerProArgArgLysSerSerIleLeuVal 263
Db 925 -----AGCTCTCGAGCGGACACTGAGAGCGCCGCGC----- 954
QY 264 SerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySerPheThrArg 283
Db 955 -----TCACTCAAGAGGGGCTCCAAAGCCGTCG 961
QY 284 SerGluSerAlaAlaLeuArgGlnArg-----GluTyr 294
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QY 295 AlaGluLeuLeuArgGlyArgLysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPhe 314
Db 1042 TTTCGGCTGTCTGGGACAGAGAAAGTGGCCAAAGTCCGTCGCGCTCACTCGAGACATCTTT 1101
QY 315 AlaIleCysThrAlaProTyrCysLeuPheThrIleValLeuSerThrTyrProArgThr 334
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QY 375 LeuCysValThrIys 379
Db 1279 CTCTGCCCCCAGAG 1293

RESULT 14
US-09-891-053-21
Sequence 21. Application US/09891053
GENERAL INFORMATION:
APPLICANT: Itadani, Hizeku
APPLICANT: Takimura, Tetsuo
APPLICANT: Nakamura, Takao
APPLICANT: Kobayashi, Masahiko
APPLICANT: Tanaka, Ken-ichi
APPLICANT: Hidaka, Yuseke
TITLE OF INVENTION: NOVEL GUANOSINE TRIPHOSPHATE (GTP)
FILE REFERENCE: 06501-083001
CURRENT APPLICATION NUMBER: US/09/891,053
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: PCT/JP99/07280
PRIOR FILING DATE: 1999-12-24
PRIOR APPLICATION NUMBER: PCT/JP98/05967
PRIOR FILING DATE: 1998-12-25
PRIOR APPLICATION NUMBER: JP 11/145661
PRIOR FILING DATE: 1999-05-25
NUMBER OF SEQ ID NOS: 26

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SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 21
LENGTH: 2050
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (271)...(1629)
US-09-891-053-21

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Score: 722.50 Matches: 165
Percent Similarity: 50.82% Conservative: 51
Best Local Similarity: 38.82% Mismatches: 116
Query Match: 35,284 Indels: 93
DB: 4 Gaps: 10

US-10-626-445-8 (1-391) x US-09-891-053-21 (1-2050)
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Db 439 CTGGCTTGGTGGCGACACTCGAGCTCCGACCCAGAACAACTTCTTCGCTCAACCTC 498
QY 58 AlaIleSerAspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeu 77
Db 499 GCCATCTCCGACCTTCTCGTCCGCGCTTCTGATCTCCATGATCTTACCTTACGTCG 558
QY 78 Phe---AsnTTPAsnPheGlySerGlyIleCysMetPheTTPLeuIleThrAspTyrLeu 96
Db 559 ACAGCGCGCTGACCTTTCGCGCGGCTCTGCAAGCTGTGGTGTAGTGAATGACTG 618
QY 97 LeuCysThrAlaSerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerVal 116
Db 619 CTGTGCACTCCCTCTGCTTCAACATCGTGTATAGTATGAGACCGCTTCGTCGGCTG 678
QY 117 SerAsnAlaValSerTyrArgAlaGlnHisThrGlyIleMetLysIleValAlaGlnMet 136
Db 679 ACCCGAGCGGTCTCATACCGGGCGCCAGAGGTGACACCGCGGCGGACATGCGGAAGTG 738
QY 137 ValAlaValTTPLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSer 156
Db 739 CTGCTGTGTGGTGTGGCTTCTGCTGTATGAGACCAATCTCTG-----AGC 789
QY 157 TTPYr-----AsnSerThrAsnThrLysAspCysGluProGlyPheVal 171
Db 790 TGGGACTACTCTGTCGGGGGAGCTTCATCCCGAGGGCACTGCTATGCCAGTTCTTC 849
QY 172 ThrGluTTPYrIleLeuThrIleThrMetLeuLeuGluPheLeuLeuProValIleSer 191
Db 850 TCAACCTGTACTTCTCTCATACAGGCTTCACACCTGAGAGTTCTTACGCCCTTCACAG 909
QY 192 ValAlaTyrPheAsnValGlnIleTyr----- 200
Db 910 GTCACTCTTTAATCTCAGATCTGTAACATTCAGAGGCGACCCGCTCCGGCTG 969
QY 200 ----- 200
Db 970 GATGGGCTCGAGAGGACGGCCCGGAGCCCTCCGAGGCCAGCCCTCAACACC 1029
QY 201 -----TTPSerLeuTTPYrArgArgAlaLeuSerArgCysProSerHis 215
Db 1030 CCACCGCTGGCTGCTGGGCTGCTGGCAGAGGGGACGGGAGCCATGCTGCTGAC 1089
QY 216 -----AlaGlyPheSerThrThrSerSer 223
Db 1090 AGGTATGGGCTGAGTGGGCGCCGTAAGCCCTGAGGCGGAGCGGAGCGGACCTTCGGGGGT 1149
QY 224 SerAlaSerGlyHisLeuHisArgArgAlaGlyAlaCysArgThrSerAsnProGlyLeu 243

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Oy	244	LygSLuSerIaalaSerArgHisSerGluSerProArgArgLysSerSerIleLeuVal						----	263
Db	1195	-----ACCTCTCGAGGGGACCTGAGGCGCGC						----	1224
Oy	264	SerLeuArgThrHisMetLeuSerSerIleThrIlaPheLysValGlySerPheTrpArg						----	283
Db	1225	-----TCACTCAGAGGGGCTCCAGCCGTGC						----	1251
Oy	284	SerGluSerIaalaLeuArgGlnArg		-----GlnuTrp	294				
Db	1252	GGCTCCCTGGCGCTCCGCTGAGAGAAGGCATGAAGATGTCCTCCAGACTTACCAAGGC						----	1311
Oy	295	AlaGluLeuLeuArgLysArgLysLeuAlaArgSerIleuAlaIleLeuLeuSerIaPhe						----	314
Db	1312	TTTCGGCTGTCTCGGACAGAAAGTGCACAAATGCTGCGCGTCATGTGAGCATCTTT						----	1371
Oy	315	AlaIleCysTrpAlaProTyrCysLeuPheThrIleValIleuSerThrTyrProArgThr						----	334
Db	1372	GGGCTGCTGCTGGGCCCATACAGCTGTGTGATGATCACTCGGGCGCTCGCATGGCCAC						----	1431
Oy	335	GluArgProLysSerValTrpTyrSerIleAlaPheTrpLeuGlnTrpPheAsnSerPhe						----	354
Db	1432	TGCGTCCCT---GACTACTGGTAGCAAACTCTTCTGGCTCTCTGTGGCCAACTCGGCT						----	1488
Oy	355	ValAsnProPheLeuTyrProLeuCysHisArgArgPheGlnLysAlaIlePheTrpLysIle						----	374
Db	1489	GTCAAACCTGTCCTTACCTCTGTGGCACACACAGACTCCGCGGGCCTTACCAAGAGTG						----	1548
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1      RESULT 15
2      US-09-165-543-6
3      ; Sequence 6, Application US/09165543
4      ; Patent No. 6093545
5      ; GENERAL INFORMATION:
6      ; APPLICANT: Andrew D.J. Goodearl and Sandra Glucksman
7      ; TITLE OF INVENTION: Muscarinic Receptors and Uses Therefor
8      ; NUMBER OF SEQUENCES: 39
9      ; CORRESPONDENCE ADDRESS:
10     ; ADDRESSEE: LANIV & COCKFIELD, LLP
11     ; STREET: 28 State Street
12     ; CITY: Boston
13     ; STATE: Massachusetts
14     ; COUNTRY: USA
15     ; ZIP: 02109
16     ; COMPUTER READABLE FORM:
17     ; MEDIUM TYPE: Floppy disk
18     ; COMPUTER: IBM PC compatible
19     ; OPERATING SYSTEM: PC-DOS/MS-DOS
20     ; SOFTWARE: PatentIn Release #1.0, Version #1.25
21     ; CURRENT APPLICATION DATA:
22     ; APPLICATION NUMBER: US/09/165,543
23     ; FILING DATE:
24     ; CLASSIFICATION:
25     ; PRIOR APPLICATION DATA:
26     ; APPLICATION NUMBER: 09/042,780
27     ; FILING DATE:
28     ; ATTORNEY/AGENT INFORMATION:
29     ; NAME: Elizabeth A. Hanley
30     ; REGISTRATION NUMBER: 33,505
31     ; REFERENCE/DOCKET NUMBER: MN1-032CP
32     ; TELECOMMUNICATION INFORMATION:
33     ; TELEPHONE: (617) 227-7400
34     ; TELEFAX: (617) 742-4214
35     ; INFORMATION FOR SEQ ID NO: 6:
36     ; SEQUENCE CHARACTERISTICS:
37     ; LENGTH: 1338 base pairs
38     ; TYPE: nucleic acid
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; STRANDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1335
;
US-09-165-543-6

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Best Local Similarity:	40.24%
Query Match:	34.99%
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US-10-626-445-8 (1-391) x US-09-165-543-6 (1-1338)

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QY	38	LeuAlaPheValValAspArgSerAsnLeuArgHisArgSerAsnTyPhePheLeuAsnLeu	57
Db	169	CTGGCTTGTGGCGGATTCGAGCTTCGACCCAGCAACATCTTCTTGCTTCAACTTC	228
QY	58	AlaIleSerSerPheLeuValGlyLeuIleSerIleProLeuTyTyrIleProHisValLeu	77
Db	229	GGCATCTCCGACATCTCTCGTGGTGCCCTTCGCATCCCATGTGACGAACTCATGTGCTG	288
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QY	97	LeuCySThrAlaSerValTyrAsnIleValLeuIleSerTyArgAspArgTyrGlnSerVal	116
Db	349	CTGTGTGGCTTCCCTCGGTCTTCAACATCGTACTCATCAGCTATGACCGATTCCTGTCACTC	408
QY	117	SerAsnAlaValSerTyArgAlaIleHisIsthGlyIleMetCysIleValAlaGlnMet	136
Db	409	ACTCGAGCTGTCTCTTCAAGGGCCACAGAGGGGACACAGACCGGGCGCTTCGGAAATG	468
QY	137	ValAlaValTyrIleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSer	156
Db	469	GCACGTGTGTGGTGTGGCTTCTCTCGTATATGGGCTTGCATCTCG-----AGT	519
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QY	172	ThrGluTyrPyrIleLeuThrIleThreMetLeuGluPheLeuProValIleSer	191
Db	580	TACACTGTGACTTCTTCATCAGGCGCTCACACCTCGAGTCTTTCACAGCCCTTCTCAGC	639
QY	192	ValAlaTyrPheAsnValGlnIleTyTyrPheLeuTyrArgArgAlaLeu-----	209
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QY	210	-----SerArgCysProSerHis	215
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QY	216	AlaGlyPheSerThrThrserserSerAlaSerGlyHis-----LeuHis	230
Db	760	GCTCCCGCCAGCTGCTGGGGCTGTGGCCAAAGGGCATGGCGGCATGCGGTTCAC	819
QY	231	ArgAlaGlyValAlaCysArgThrSerAsnProGlyLeuTyS-----	244
Db	820	AGGTATATGGGTGGGT-----GAGCAGAGCCCTGATGTGAGGTGGGAGGCTGCCCTC	873
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Db 973 AAGCCATCAGCATCTTCAGCATCCCTGAGAAAGGCATGAAGTGTGTCCAGAGCATC 1032
QY 290 ArgGlnArgGlnTyrAlaGlnIleLeuValArgGlyArgLysLeuAlaArgSerLeuAlaIle 309
Db 1033 ACCCAAGCGC-----TCCCGGCTGTCCGGGACAAAGAGTGCCCAAGTGGCCATC 1086
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QY 330 ThrTyrProArgThrGlnArgProLysSerValITrpTyrSerIleAlaPheTrpLeuGln 349
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QY 350 TrpPheAsnSerPheValAsnProPheLeuTyrProLeuCysHisArgArgPheGlnLys 369
Db 1204 TGGGCCCACTCGGCGCGTCAACCCGCTCTTACCCTGCTGACCTTCCGAGCTTCGCGAGA 1263
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Db 1264 GCCTTCACCAAGCTCTGCCCCCAGAG 1293
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Search completed: October 8, 2005, 04:47:20
Job time : 244 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame_plus.p2n model

Run on: October 8, 2005, 04:27:06 ; Search time 881 Seconds
(without alignments)
3091.093 Million cell updates/sec

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Perfect score: 2048
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Searched: 844330 segs, 3482420727 residues

Total number of hits satisfying chosen parameters: 16886260

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-TRANS=human40.cdi -LIST=45 -LOCALALIGN=200 -THR SCORE=pct -THR MAX=100
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and is derived by analysis of the total score distribution.

SUMMARIES

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2	2035	99.4	1176	21	US-10-626-136-5 Sequence 5, Appl1
3	2035	99.4	1176	21	US-10-626-139-5 Sequence 5, Appl1
4	1745	85.2	1176	20	US-10-626-445-6 Sequence 6, Appl1
5	1745	85.2	1176	21	US-10-626-126-6 Sequence 6, Appl1
6	1745	85.2	1176	21	US-10-626-388-6 Sequence 6, Appl1
7	1370.5	66.9	1173	9	US-09-812-216-1 Sequence 1, Appl1
8	1370.5	66.9	1173	9	US-09-910-411-1 Sequence 1, Appl1
9	1370.5	66.9	1173	10	US-09-876-076-13 Sequence 13, Appl1
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11	1370.5	66.9	1173	13	US-10-052-193-1 Sequence 1, Appl1
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15	1370.5	66.9	1173	17	US-10-417-820A-13 Sequence 13, Appl1
16	1370.5	66.9	1173	18	US-10-349-253A-1 Sequence 1, Appl1
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19	1370.5	66.9	1173	19	US-10-737-619-1 Sequence 1, Appl1
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22	1370.5	66.9	1173	21	US-10-626-126-1 Sequence 1, Appl1
23	1370.5	66.9	1173	21	US-10-626-138A-5 Sequence 5, Appl1
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25	1370.5	66.9	1300	19	US-10-696-673-1 Sequence 1, Appl1
26	1370.5	66.9	1300	19	US-10-225-567A-628 Sequence 628, App
27	1370.5	66.9	3689	15	US-10-684-206-19 Sequence 19, Appl1
28	1370.5	66.9	3689	22	US-10-756-149-32 Sequence 32, Appl1
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31	1366.5	66.7	1265	15	US-10-290-078-25 Sequence 7, Appl1
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33	1238	60.4	1170	21	US-10-626-136-7 Sequence 7, Appl1
34	1238	60.4	1170	21	US-10-626-358-7 Sequence 7, Appl1
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40	724.5	35.4	2689	24	US-11-059-105-1 Sequence 1, Appl1
41	724.5	35.4	2699	15	US-10-225-567A-548 Sequence 548, App
42	724.5	35.4	2699	19	US-10-727-021-5 Sequence 5, Appl1
43	724.5	35.4	2699	19	US-10-757-262-131 Sequence 131, App
44	722.5	35.3	1335	9	US-09-350-206-3 Sequence 3, Appl1
45	722.5	35.3	1335	9	US-09-349-755-3 Sequence 3, Appl1

ALIGNMENTS

RESULT 1
US-10-626-445-5
Sequence 5, Application US/10626445
Publication No. US20040248252A1
GENERAL INFORMATION:
APPLICANT: Lovenberg, Timothy
TITLE OF INVENTION: DNA Encoding Mammalian Histamine Receptor Of The H4 Subtype
FILE REFERENCE: PRD-0032
CURRENT APPLICATION NUMBER: US/10/626,445
PRIOR FILING DATE: 2003-07-23
PRIOR APPLICATION NUMBER: 09/790, 849
PRIOR FILING DATE: 2001-02-22
PRIOR APPLICATION NUMBER: 60/208, 260
PRIOR FILING DATE: 2000-05-31
NUMBER OF SEQ ID NOS: 27

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; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-626-445-5

Alignment Scores:
Pred. No.:          9,666-215          Length:          1176
Score:             2035.00             Matches:          390
Percent Similarity: 99.74%             Conservative:     0
Best Local Similarity: 99.74%           Mismatches:      1
Query Match:       99.37%              Indels:          0
DB:                20                  Gaps:            0

US-10-626-445-8 (1-391) x US-10-626-445-5 (1-1176)

QY      1 MetSerGluSerAsnSerThrGlyIleuProProlaAlaGlnValProleuAlaPhe 20
DB      1 ATGTGGAGTCTAAACAGTACGTGGCATCTTGCCACCAAGCTCAGGTCCTTGCGCATTT 60
QY      21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleuAlaPhe 40
DB      61 TTTATGTCCTTCATTTGCTTGTGCTATATGATGATGAGCAATGCTGTCTCATTTAGCTTT 120
QY      41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
DB      121 GTGGTGCAGCAAAACCTTAGACATCGAAGTAATTAATTTTCTTAATTTGGCTAATTTCT 180
QY      61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTyr 80
DB      181 GACTTCCTCGTGGGTTTGAATTCATTCCTCTGTATACATCCCTCAGCGTTGTTTAACTGG 240
QY      81 AsnPheGlySerGlyIleCysMetPheTyrPheIleThrAspTyrLeuLeuCysThrAla 100
DB      241 AATTTTGGAAAGTGAATTCGCATGTTTGGCTCATTAACGACATCTTTTGCGACCGCA 300
QY      101 SerValTyrAsnIleValIleuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
DB      301 TCTGTCTACAAATATGTCCTCATTAAGCTACGATCGATACAGTCAGTTCCTCAATGCTGG 360
QY      121 SerTyrArgAlaGlnHisThrGlyIleMetLysIleValAlaGlnMetValAlaValIleTyr 140
DB      361 TCTTAATAGGGCTCAACACACTGGCATCATGAAATGTTGCTCAATATGGGCTGTTTGG 420
QY      141 IleLeuAlaPheLeuValAsnGlyPheMetIleLeuAlaSerAspSerTyrPheAsnSer 160
DB      421 ATACTGGCTTTCTTGGTAATGACCCGATGATTTCTGGCTTCAGATTTCTGGAAAGACAG 480
QY      161 ThrAsnThrLysAspCysGluProGlyPheValThrGluTyrIleLeuThrIleThr 180
DB      481 ACGAACACAAAGAGACTGTAGCTTGCTTTGTTACAGAGTGAATCCCTCACACATTACA 540
QY      181 MetLeuLeuGlnPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
DB      541 ATGCTCTTGAATTCCTGCTTCTGTCTCATCTCTGTGGCTTAATTTCAATGATACGATTTC 600
QY      201 TrpSerLeuTyrLysArgArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
DB      601 TGGAGCTGTGGAAGGAGTGAAGGCTCTCAGTAGAGTGGCTTAAGCCATGCTGATTTCTCACT 660
QY      221 ThrSerSerSerAlaSerGlyHisLeuHisArgAlaGlyValAlaCysArgThrSerAsn 240
DB      661 ACTCTTCCAGTCTTCAGGACACTTAACACAGAGCTGGGGTGGCTTGACAGACAACTAAT 720
QY      241 ProGlyLeuLysGluSerAlaAlaSerArgHisSerGluSerProArgArgLysSerSer 260
DB      721 CCGGATTTGAAGAATCACTGATCTCGCTACAGAAAGTCTCGAAGAAAGACACAG 780
QY      261 IleLeuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySer 280
DB      781 ATCTGTGTGCTTAAGGACTCAACATGAACAGCATGATCATCTCTCAAAAGTGGGTTC 840

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QY      281 PheTyrArgSerGluSerAlaAlaLeuArgGlnArgGlyuTyrAlaGlnIleLeuAlaArgGly 300
DB      841 TTCTGGCATCGAAAGTGCAGCGCTTGCCAAAAGGAGTACGACACTTCTCAGAGGC 900
QY      301 ArgLysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCysTyrAlaPro 320
DB      901 AGGAAGCTAAGCAGGTGACTGCGCATCTTCTGAGCGCTTTTGCCATTTGCTGGGCTCCA 960
QY      321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGlnArgProLysSerVal 340
DB      961 TACTGTCTGTTACACATATGTCCTTTCAACTTACCCCGAAGACGAGCCCAAAATCGGTG 1020
QY      341 TrpTyrSerIleAlaPheTyrLeuGlnTyrPheAsnSerPheValAsnProPheLeuTyr 360
DB      1021 TGTACACGATTTGCTTGGCTGCGATGATGTTCAATTCGTTATTCCTTCTGTAC 1080
QY      361 ProLeuCysHisArgArgPheGlnLysAlaPheTyrLysIleLeuCysValThrLysTyr 380
DB      1081 CTTTGTGTACAGGCGCTTTCAGAAAGCTTTCTGGAAGATACCTTGTGTACAAAGCAA 1140
QY      381 ProAlaLeuSerGlnAsnGlnSerValSerSer 391
DB      1141 CCAGCGCTGCACAGAACCAAGTCAATATCTTCT 1173

RESULT 2
US-10-626-126-5
; Sequence 5, Application US/10626126
; Publication No. US20050074770A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; TITLE OF INVENTION: DNAs Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0033
; CURRENT APPLICATION NUMBER: US/10/626.126
; PRIOR FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; PRIOR FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-626-126-5

Alignment Scores:
Pred. No.:          9,666-215          Length:          1176
Score:             2035.00             Matches:          390
Percent Similarity: 99.74%             Conservative:     0
Best Local Similarity: 99.74%           Mismatches:      1
Query Match:       99.37%              Indels:          0
DB:                21                  Gaps:            0

US-10-626-445-8 (1-391) x US-10-626-126-5 (1-1176)

QY      1 MetSerGluSerAsnSerThrGlyIleuProProlaAlaGlnValProleuAlaPhe 20
DB      1 ATGTGGAGTCTAAACAGTACGTGGCATCTTGCCACCAAGCTCAGGTCCTTGCGCATTT 60
QY      21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleuAlaPhe 40
DB      61 TTTATGTCCTTCATTTGCTTGTGCTATATGATGATGAGCAATGCTGTCTCATTTAGCTTT 120
QY      41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
DB      121 GTGGTGCAGCAAAACCTTAGACATCGAAGTAATTAATTTTCTTAATTTGGCTAATTTCT 180
QY      61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTyr 80
DB      181 GACTTCCTCGTGGGTTTGAATTCATTCCTCTGTATACATCCCTCAGCGTGTGTTAACTGG 240

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Db 721 CCTGAGTAAAGAAATACCTGATCTCGTCACTCAAGAAAGTCTGAAAGAAAGACAC 780
Qy 261 lIleValSerLeuArgThrHisMetAasSerSerIleThrAlaPheIysValGlySer 280
Db 781 ATCTGCTGCTCTTAAGACATCAAGAACAGAGATATCATCTCCCTTCAAAAGGGCTTC 840
Qy 281 PheTPArGSerGluSerAlaAlaLeuArgGlnArgGluTyrAlaGluLeuLeuArgGly 300
Db 841 TTCTGCGCATGCGAAAGTCCAGCGCTTCGCCAAGAGAGTACCCAGAGCTTCTCAAGAGC 900
Qy 301 ArgIysLeuAlaArgSerIleAlaIleuLeuSerAlaPheAlaIleCysTrpAlaPro 320
Db 901 AGAAGCTAGCCAGGACGACCTGGCCATCTTGAGCGCTTTGGCCATTGGCTGGCTCA 960
Qy 321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGluArgProIysSerVal 340
Db 961 TACTGCTGTTCATTTGCTTCCCTTCACTTACCAGAACGGAAGCCCAAAATCGGTG 1020
Qy 341 TrpTyrSerIleAlaPheTrpLeuGlnTrpPheAasSerPheValAsnProPheLeuTyr 360
Db 1021 TGGTACAGCATGCTTCTGCTGCTGCAATGGTCAATTGCTTATTCCTTCTGTAC 1080
Qy 361 ProLeuCyHisArgArgPheGlnIysAlaPheTrpIysIleuLeuValThrIysTrp 380
Db 1081 CCTTGTGTACAGGCGGCTTCCAGAAAGCTTCTTGGAAGATCTTGTGTGACAAAGCAA 1140
Qy 381 ProAlaLeuSerGlnAsnGlnSerValSerSer 391
Db 1141 CCAGCGCTGTCAAGAACGATGATATCTTCT 1173

RESULT 4
US-10-626-445-6
; Sequence 6, Application US/10626445
; Publication No. US20040248252A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Liu, Changju
; TITLE OF INVENTION: DNAs Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0032
; CURRENT APPLICATION NUMBER: US/10/626,445
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; PRIOR FILING DATE: 2000-05-31
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Rattus rattus
US-10-626-445-6

Alignment Scores:
Pred. No.: 1,35e-182 Length: 1176
Score: 1745.00 Matches: 332
Percent Similarity: 89.26% Conservative: 17
Best Local Similarity: 84.91% Mismatches: 42
Query Match: 85.21% Indels: 0
DB: 20 Gaps: 0

US-10-626-445-8 (1-391) x US-10-626-445-6 (1-1176)
Qy 1 MetSerGluSerAsnSerThrGlyIleLeuProProAlaAlaGlnValProLeuAlaPhe 20
Db 1 ATGTGGAGATCTAACGCGCATGACGTCTTGCCACTGACGTCAATCCCTTTGGCATTT 60
Qy 21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleLeuAlaPhe 40
Db 61 TTATATCTCCCTGCTCTTGTCTATTAAGATGAGGCAATGCTGTGATATTAGCTTT 120
Qy 41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
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Db 121 GTAGACAGCAGAAACCTTAAGATGATGATATTTTCTTAATTTGGCTATTTCT 180
Qy 61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTrp 80
Db 181 GACTTCTTGAGGGATGATCATCTCCATCTCTGTATCATCCCTCACAGCGTTTAACTGG 240
Qy 81 AsnPheGlySerGlyIleCysMetPheTrpLeuIleTrpAspTyrLeuLeuCyThrAla 100
Db 241 AATTTTGGAAAGGATCTGCAATGTTTGGCTCATTAAGTACTATCTTTTGGCACAGA 300
Qy 301 SerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
Db 301 TCCGCTTACAGATTTGCTCTCATTTAGCTACATGCAATCCAGTCACTTTCAACCTGTG 360
Qy 121 SerTyrArgAlaGlnHisThrGlyIleMetIysIleValAlaGlnMetValAlaValTrp 140
Db 361 CGTTATTAAGCACACACACACTGGCATCCGAAATTTGTTGCTCAATATGCTGTGG 420
Qy 141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTrpIysAsnSer 160
Db 421 ATACTGGCTTCTTGTGTCATGCCCCAATGATTCGGCTTCGGAATCTTGGAAAGAACGC 480
Qy 161 ThrAsnThrIysAspCysGluProGlyPheValThrGluTrpTyrIleLeuThrIleThr 180
Db 481 ACCAACACAGAGAGAGTGGAGCTGCTGTGTTGTTACTGAGTGTACATCTCCCATTA 540
Qy 181 MetLeuLeuGluPheLeuLeuProValIleSerAlaIaTyrPheAsnValGlnIleTyr 200
Db 541 GCATCTTGGAATTCCTGCTCTGCTCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
Qy 201 TrpSerLeuTrpIysArgArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
Db 601 TGGACCTGTGTGAAACGTGGAGTCTCAGTAGTGTCCCTTACGACGCTGAGTATTCCT 660
Qy 221 ThrSerSerSerAlaSerGlyHisIleuHisArgAlaGlyValAlaCysArgThrSerAsn 240
Db 661 ACCTCTTCCAGGGGACATGAGACATCAACGACAGAACTGGGTTGGCTTGTAGCAAGTCTT 720
Qy 241 ProGlyLeuIysGluSerAlaAlaSerArgHisSerGluSerProArgArgIysSerSer 260
Db 721 CCTGATTTAAAGAACACGCGCATCCCTTCAATTCAGAAAGTCCAGGAAAGAGCAGT 780
Qy 261 IleLeuValSerLeuArgThrHisMetAasSerSerIleThrAlaPheIysValGlySer 280
Db 781 CTCCTGGTGTCTCTTAAGACTCACTCAATGAGCGGTACTATCATCGCTTCAAAGTGGTTC 840
Qy 281 PheTPArGSerGluSerAlaAlaLeuArgGlnArgIuTyrAlaGluLeuLeuArgGly 300
Db 841 TTCTGCCATCAGAAAGCCCACTGCTTCAACAGAGAGACAGCTTCTCAGAGGC 900
Qy 301 ArgIysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCysTrpAlaPro 320
Db 901 AGAAGCTAGCCAGGATGCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960
Qy 321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGluArgProIysSerVal 340
Db 961 TATTCCTGTTTCCACAAATTTCTTTCATTAATCCCAAGGGAGCGGCCCAAAATCGATT 1020
Qy 341 TrpTyrSerIleAlaPheTrpLeuGlnTrpPheAasSerPheValAsnProPheLeuTyr 360
Db 1021 TGGTACAGATAGCTTGTGCTTACAGTGTTCATTTACTTATTAATCCCTTTCTATAC 1080
Qy 361 ProLeuCyHisArgArgPheGlnIysAlaPheTrpIysIleLeuCyValThrIysTrp 380
Db 1081 CCTTGTGTACAGGCGTTCAGAAAGCTTCTTGGAAGATCTGTTGTGACAAAGCAA 1140
Qy 381 ProAlaLeuSerGlnAsnGlnSerValSerSer 391
Db 1141 CCAGCACCTTCAAGAACGATGATATCTTCT 1173

RESULT 5
US-10-626-126-6
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; Sequence 6, Application US/10626126
; Publication No. US2005007470A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Liu, Changlu
; TITLE OF INVENTION: DNA Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0033
; CURRENT APPLICATION NUMBER: US/10/626,126
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; PRIOR FILING DATE: 2000-05-31
; SOFTWARE: Patent version 3.2
; SEQ ID NO 6
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Rattus rattus
US-10-626-126-6
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Alignment Scores:

Pred. No.:	1,35e-182	Length:	1176
Score:	1745.00	Matches:	332
Percent Similarity:	89.26%	Conservative:	17
Best Local Similarity:	84.91%	Mismatches:	42
Query Match:	85.21%	Indels:	0
DB:	21	Gaps:	0

US-10-626-445-8 (1-391) x US-10-626-126-6 (1-1176)

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QY 1 MetSerGluSerAsnSerThrglyIleuProProlaAlaGlnValProleuAlaPhe 20
DB 1 ATGTGGAGATCTTAACGGCAGCTGACGCTCTTCCCTGACCTGACCTGACCTGCGATT 60
QY 21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleleuAlaPhe 40
DB 61 TTAATGTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
QY 41 ValIleAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
DB 121 GTACGACAGACAGAACTTGTGACATCGAAGTAATATTTTCTTAATTTGCTTATTTCT 180
QY 61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValleuPheAsnTyr 80
DB 181 GACTTCTTGGTGGGTCTCATCTCCATTCTCTGTAATCCCTCAACGCTGTTAACTGG 240
QY 81 AsnPheGlySerGlyIleCysMetPheTyrPheIleThrAspTyrLeuLeuCythrAla 100
DB 241 AATTTTGAAGTGAATCTGCAATGTTTGGCTCATTAAGTATCTTTTGTGCACAGCA 300
QY 101 SerValTyrAsnIleValleuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
DB 301 TCCGCTCAAGTAATGTCTCTCATTTACTTCTGATCGATCGATACGACGATTCMAACGCTGT 360
QY 121 SerTyrArgAlaGlnHisThrGlyIleMetCysIleValAlaGlnMetValAlaValTyr 140
DB 361 CGTTATAGACACAGACACCTGGCATCTCGAATAATTTGCTCAATATGATGGCTGTGG 420
QY 141 IleleuAlaPheLeuValAsnGlyProMetIleleuAlaSerAspSerTyrPlyAsnSer 160
DB 421 ATACTGGCTTTCTTGTGTCATAGGCCCAATGATTCCTGCTTGGATTCTTGGAAAGACAG 480
QY 161 ThrAsnThrLysAspCysGluProGlyPheValThrGluTyrTyrIleleuThrIleThr 180
DB 481 ACCAACACAGAGAGAGCGAGCTGCTTGTGTACTGAGAGGTGACATCTCTCGCCATTACA 540
QY 181 MetLeuLeuGluPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
DB 541 GCATCTTGGAAATCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 600
QY 201 TrpSerLeuTyrLysArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
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DB 601 TGGAGCTGTGGAAAGCTGGAGATCTCAGTAGTGCCCTTAAGCCACGCTGATTCATCGCT 660
QY 221 ThrSerSerSerAlaSerGlyHisLeuHisArgAlaGlyValAlaCysArgThrSerAsn 240
DB 661 ACTCTTCCAGGGGCGCATGTGACCTCAACGACAGATGGGTGGCTTGTGACAACTCTT 720
QY 241 ProGlyLeuLeuGluSerAlaAlaSerArgHisSerGluSerProArgLysSerSer 260
DB 721 CCTGATTAAGGAACCAACCCCATCTCTCAATTCAGAAAGTCCACGAGAAAGACAGAT 780
QY 261 IleleuValSerLeuArgHisHisMetAsnSerSerIleThrAlaPheLysValGlySer 280
DB 781 CTCTGGTGTCTTAAAGACTCAATGACGGGTGATGATCATCGCTTCAAAAGTGGGTCC 840
QY 281 PheTrpArgSerGluSerAlaAlaLeuArgGlnArgGlyTyrAlaGluLeuLeuArgGly 300
DB 841 TTCTGCCGATCAAGAAAGCCAGTCTTCCACGAGAGACAGATGAGCTTCAAGAGC 900
QY 301 ArgLysLeuAlaArgSerLeuAlaIleleuLeuSerAlaPheAlaIleCysTyrAlaPro 320
DB 901 AGGAGCTAGCCAGGTGCTGATGCTCTCTGAGTGTCTTGGCATTTGCTGGGCTCCG 960
QY 321 TyrCysLeuPheThrIleValleuSerTyrTyrProArgThrGlnArgProLysSerVal 340
DB 961 TATTCCTGTTCACAAATTTCTTTCAACTTATCGCAGAGGGAGGAGGCCCAATTCGATT 1020
QY 341 TrpTyrSerIleAlaPheTyrLeuGlnTyrPheAsnSerPheValAsnProPheLeuTyr 360
DB 1021 TGTACAGCATAGCTTTTGGCTACAGTGTCTCAATTCCTTATCTTATCTCTCTCT 1080
QY 361 ProLeuCyHisArgArgPheGlnLysAlaPheTyrIleleuCyAsnValThrLysTyr 380
DB 1081 CTTTGTGCACAGAGCTTTCACAGAAAGCTTTCTGGAAGATATCTGTGTGACAAAGCAA 1140
QY 381 ProAlaLeuSerGlyAsnGlnSerValSerSer 391
DB 1141 CCAGCACTTTCACAGACCAGTCAATCTTCT 1173
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RESULT 6

US-10-626-398-6

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; Sequence 6, Application US/10626398
; Publication No. US20050074841A1
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Liu, Changlu
; TITLE OF INVENTION: DNA Encoding Mammalian Histamine Receptor Of The H4 Subtype
; FILE REFERENCE: PRD-0034
; CURRENT APPLICATION NUMBER: US/10/626,398
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: 09/790,849
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 60/208,260
; PRIOR FILING DATE: 2000-05-31
; SOFTWARE: Patent version 3.2
; SEQ ID NO 6
; LENGTH: 1176
; TYPE: DNA
; ORGANISM: Rattus rattus
US-10-626-398-6
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Alignment Scores:

Pred. No.:	1,35e-182	Length:	1176
Score:	1745.00	Matches:	332
Percent Similarity:	89.26%	Conservative:	17
Best Local Similarity:	84.91%	Mismatches:	42
Query Match:	85.21%	Indels:	0
DB:	21	Gaps:	0

US-10-626-445-8 (1-391) x US-10-626-398-6 (1-1176)

```
QY 1 MetSerGluSerAsnSerThrglyIleuProProlaAlaGlnValProleuAlaPhe 20
DB 1 ATGTGGAGATCTTAACGGCAGCTGACGCTCTTCCCTGACCTGACCTGCGATT 60
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Db 1 ATGTGGAGTCTAAGCGCACTGACGCTTTGCCACTGACGCTCCCTTGGCACTT 60
Qy 21 LeuMetSerSerPheAlaPheAlaIleuMetValGlyAsnAlaValIleuAlaPhe 40
Db 61 TTTAAGTCCCGCTTCTTGTCTAATAGGATAGGAAAGCTGTGTCTATTTAGCTTT 120
Qy 41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
Db 121 GTAGCAGACAGAAACCTTAGACATCAAGATTAATATTTTCTTAATTTGGCTATTTCT 180
Qy 61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValIlePheAsnTyr 80
Db 181 GACTTCTTGCTGGGTGCTCATCTCCATCTCTCTGTACATCTCCACACGCTGTTTAATCTG 240
Qy 81 AsnPheGlySerGlyIleCysMetPheTyrPheLeuIleThrAspTyrLeuLeuCysThrAla 100
Db 241 AATTTTGGAAAGTGAATCTGCATGTTTGGCTCATTTAGACATCTTTTGTGCACAGCA 300
Qy 101 SerValTyrAsnIleValIleuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
Db 301 TCCGCTCTACAGATTTGCTCATTTAGCTACGATCCATCCAGTCAGTTCAAACGCTGTG 360
Qy 121 SerTyrArgAlaGlnHisThrGlyIleMetLysIleValAlaGlnMetValAlaValTyr 140
Db 361 CCTTTAGACACAGCACTGACATCTGAAATTTGCTCAAAATGAGTGGCTGTTTGG 420
Qy 141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTyrLysAsnSer 160
Db 421 AATACGCGCTTTCTTGGTCAATGGCCCAATGATTTGGCTTCGGATTTCTTGGAAAGAAC 480
Qy 161 ThrAsnThrLysAspCysGlnProGlyPheValThrGlnTyrIleLeuThrIleThr 180
Db 481 ACCAACACAGAGAGAGCGACGCTGCTTGTATTCAGATGGTGTACATCTCCCATTTACA 540
Qy 181 MetLeuLeuGlnPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
Db 541 GCATTTCTGAAATCTCTGCTCCCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
Qy 201 TrpSerLeuTyrLysArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
Db 601 TGGACCTGTGGAAAGCTGGAGTGTCACTAGTGTGCTTACAGCCACGCTGATTCATCGT 660
Qy 221 ThrSerSerSerAlaSerGlyHisLeuHisArgAlaGlyValAlaCysArgThrSerAsn 240
Db 661 ACCCTCTTCAGAGGAGCACTGGACATCAACGCAAGCTGGTGTGTGTGTGTGTGTGTGT 720
Qy 241 ProGlyLeuLysGlnSerAlaIleSerArgHisSerGlnSerProArgArgLysSerSer 260
Db 721 CCTGGATTAAGAAACCAAGCCGATCTCTTCATTTCAAGAAAGTCCACAGAAAGAGCACT 780
Qy 261 IleLeuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySer 280
Db 781 CTCCTGGTGTCTTAAAGACTCATGACGAGGATGATGATGATGATGATGATGATGATGAT 840
Qy 281 PheTyrArgSerGlnSerAlaAlaLeuArgGlnArgGlnTyrAlaGlnLeuLeuArgGly 300
Db 841 TTCCTCCGATCAAGAAAGCCAGTGTCTTCACAGAGAGAGCACTGGAGCTTCTCAGAGGC 900
Qy 301 ArgLysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaGlnLeuTyrAlaPro 320
Db 901 AGGAAAGCTAAGCGAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960
Qy 321 TyrCysLeuPheThrIleValIleuSerThrTyrProArgThrGlnArgProLysSerVal 340
Db 961 TATTTCCCTTCTTCAATTTCTTTCACTTATCCGAGAGGGAGGAGGAGGAGGAGGAGGAGT 1020
Qy 341 TrpTyrSerIleAlaPheTyrLeuGlnTyrPheAsnSerPheValAsnProPheLeuTyr 360
Db 1021 TGGTACAGATAGCTTTTGGCTAAGCTGCTTCAATTTCAATTTCAATTTCAATTTCAATTC 1080
Qy 361 ProLeuCysHisArgArgPheGlnLysValAlaPheTyrLysIleLeuCysValIleTyrTrp 380
Db 1081 CCTTTGTGCAAGACGTTTCCAGAGGCTTTCTGGAAAGATCTCTGTGTGCAAGCA 1140

Qy 381 ProAlaLeuSerGlnAsnGlnSerValSerSer 391
Db 1141 CCAGCACCTTCCACAGACCCAGCAGTCACTTCT 1173

RESULT 7

US-09-812-216-1
/ Sequence 1, Application US/09812216
/ Patent No. US20020098539A1
/ GENERAL INFORMATION:
/ APPLICANT: Behan, Jiang Xu
/ APPLICANT: Laz, Thomas M.
/ APPLICANT: Morsma, Frederick J. Jr.
/ APPLICANT: Morse, Kelley L.
/ APPLICANT: Umland, Shelby P.
/ APPLICANT: Wang, Suke
/ TITLE OF INVENTION: Histamine receptor
/ FILE REFERENCE: CN01069
/ CURRENT APPLICATION NUMBER: US/09/812,216
/ CURRENT FILING DATE: 2001-03-19
/ PRIOR APPLICATION NUMBER: 09/414,010
/ PRIOR FILING DATE: 1999-10-07
/ NUMBER OF SEQ ID NOS: 8
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 1
/ LENGTH: 1173
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-812-216-1

Alignment Scores:
Pred. No.: 4,39e-141 Length: 1173
Score: 1370.50 Matches: 267
Percent Similarity: 78.32% Conservative: 40
Best Local Similarity: 68.11% Mismatches: 82
Query Match: 66.92% Indels: 3
Gaps: 2

US-10-626-445-8 (1-391) x US-09-812-216-1 (1-1173)

Qy 1 MetSerGlnSerAsnSerThrGlyIleLeuProProAlaIleGlnValProLeuAlaPhe 20
Db 1 ATGCCAGATTAAGAAAGCAATCAATTAATTCATCACTACGCTGCTTACCTTACATTT 60
Qy 21 LeuMetSerSerPheAlaPheAlaIleuMetValGlyAsnAlaValIleuAlaPhe 40
Db 61 TTTATGCTCTTAAGTACCTTTTGTCTAATGCTAAGAAATGCTTGTGTCTATTTAGCTTT 120
Qy 41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
Db 121 GTGGTGGCAAAACCTTAGACATGAGATGATATTTTCTTAACTTGGCCATCTCT 180
Qy 61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValIleuPheAsnTyr 80
Db 181 GACTTCTTGTGGGTGATCTCCATTCCTTTGTACATCTCCACACGCTGTTCGAATGG 240
Qy 81 AsnPheGlySerGlyIleCysMetPheTyrPheLeuIleThrAspTyrLeuLeuCysThrAla 100
Db 241 GATTTTGGAAAGAAATCTGTATTTTGGCTCACTGACATCTGTTATTTGTAACCA 300
Qy 101 SerValTyrAsnIleValIleuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
Db 301 TCTGATATAATCATTTGCTCATGACGATATGATATGATATGATATGATATGATATGATAT 360
Qy 121 SerTyrArgAlaGlnHisThrGlyIleMetLysIleValAlaGlnMetValAlaValTyr 140
Db 361 TCTTATAGAACTCAACATACCTGAGGCTTGAAGATTTGATCTGATGATGAGGCTTTGG 420
Qy 141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTyrLysAsnSer 160
Db 421 GTGCTGCTCTTAAATGAAATGGGCAATGATTTCAATTTCAAGCTTTTGAAGATGAA 480

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QY 161 ThrAsnThrLysAspCysGluProGlyPheValThrGluTrpTyrIleLeuThrIleThr 180
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Db 481 GGTAATG-----GAATGTGAACCTGGATTTTTCGGAATGTATACATCTTGCATCACA 534

QY 181 MetLeuLeuGluPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 535 TCATCTTGGAATTCGTATCCAGATCCAGATCTTAGGTGCTTATTTCAACATGAATATTATTA 594

QY 201 TrpSerLeuTrpLysArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 595 TGGAGCTGTGGAAGGTATCATCTCAGTAGAGTGCACAAAGCATCTGTGATGATGCTGCT 654

QY 221 ThrSerSerAlaSerGlyHisLeuHisArgAlaGlyValAlaCysArgThrSerAsn 240
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 655 GTCTCTTCCAAACATCTGTGACATCATTCAGAGTAGACATATCTTCAAGAGATCTCTT 714

QY 241 ProGlyLeuLysGluSerAlaAlaSerArgHisSerGluSerProArgArgLysSerSer 260
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 715 TCTGCATGCACAGAACTTCTGTGATCTTTCATTCAGAGACAGACAGAGAGAAAGATGAT 774

QY 261 IleLeuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySer 280
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 775 CTCATGTTTTCCTCCAGAACCAAGATGATGATGATGATGATGATGATGATGATGATGAT 834

QY 281 PheTrpArgSerGluSerAlaAlaLeuArgGlnArgGluTyrAlaGluLeuLeuArgGly 300
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 835 TTCTCCCATCAGATTCGTAGCTCTTCCACCAAGAGAACATGTGATGATGATGATGATGAT 894

QY 301 ArgLysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCysTrpAlaPro 320
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 895 AGAAGATTGACCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 954

QY 321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGluArgProLysSerVal 340
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 955 TATTCCTCTTCAACATTCCTCTTCAATTTATTTCTCAGCAACAGCTCTCAATATCAAT 1014

QY 341 TrpTyrSerIleAlaPheTrpLeuGlnTrpPheAsnSerPheValAsnProPheLeuTyr 360
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1015 TGGTATAGAAATGATTTGGCTTCAAGTGTGATTCCTTTGTCATCTCTTTGTTGTT 1074

QY 361 ProLeuCysHisArgArgPheGlnLysAlaPheTrpLysIleLeuCysValThrLysTrp 380
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1075 CCATTGTGTCACAAAGGCTTTCAAAAGGCTTTCTTGAATAATTTGTATAAAAAGCAA 1134

QY 381 ProAlaLeuSerGln---AsnGlnSerValSerSer 391
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1135 CCTCTACATCACAACACAGTGGTCAATATCTTCT 1170

RESULT 8
US-09-910-411-1
; Sequence 1, Application US/09910411
; Patent No. US20020137054A1
; GENERAL INFORMATION:
; APPLICANT: Bergema, Derek
; APPLICANT: Fitzgerald, Laura
; APPLICANT: Li, Xiaolong
; APPLICANT: Michalovich, David
; APPLICANT: Zhu, Yuan
; TITLE OF INVENTION: AXOR35, A G-Protein Coupled Receptor
; FILE REFERENCE: GP/0655-2C1
; CURRENT APPLICATION NUMBER: US/09/910,411
; PRIOR FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 09/693,761
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 09/497,790
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: 09/431,898
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1173
; TYPE: DNA

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; ORGANISM: Homo sapien
US-09-910-411-1

Alignment Scores:
Pred. No.: 4,39e-141 Length: 1173
Score: 1370.50 Matches: 267
Percent Similarity: 78.324 Conservative: 40
Best Local Similarity: 68.114 Mismatches: 82
Query Match: 66.924 Indels: 3
DB: 9 Gaps: 2

US-10-626-445-8 (1-391) x US-09-910-411-1 (1-1173)

QY 1 MetSerGluSerAsnSerThrGlyIleLeuProProAlaAlaGlnValProLeuAlaPhe 20
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Db 1 ATGCCAGATACATATGACATCATCATTTATCAGTACAGATCGTCTTACTTACGATTT 60

QY 21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleLeuAlaPhe 40
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 61 TTTATGTCTTGTAGTCTTTTGTCTATATGATGATGATGATGATGATGATGATGATGAT 120

QY 41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 121 GTGGTGACAAACAACTTACATGACATGATGATGATGATGATGATGATGATGATGATGAT 180

QY 61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTrp 80
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 181 GACTTCTTGTGGGTGTGATCTTCATCTCTTGTGATCTCTCAGACGCTGTCGATGATG 240

QY 81 AsnPheGlySerGlyIleCysMetPheTrpLeuIleThrAspTyrLeuLeuCysThrAla 100
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 241 GATTTTGAAGAAATCTGTGATTTTGGCTCACTACATGATGATGATGATGATGATGATGAT 300

QY 101 SerValTyrAsnIleAlaLeuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 301 TCTGATATATACATGCTCTCATGATGATGATGATGATGATGATGATGATGATGATGAT 360

QY 121 SerTyrArgAlaGlnHisThrGlyIleMetCysIleValAlaGlnMetValAlaValTrp 140
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 361 TCTTATAGAACTCAACATCTGCGGCTTGAAGATTTGATCTGATGATGATGATGATGATGAT 420

QY 141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTrpLysAsnSer 160
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 421 GTGCTGCTCTTGTAGTGAATGGGCCAATGATTTAGATTGACAGCTTGAAGATGAA 480

QY 161 ThrAsnThrLysAspCysGluProGlyPheValThrGluTrpTyrIleLeuThrIleThr 180
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 481 GGTAATG-----GAATGTGAACCTGGATTTTTCGGAATGTATACATCTTGCATCACA 534

QY 181 MetLeuLeuGluPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 535 TCATCTTGGAATTCGTATCCAGATCCAGATCTTAGTGTGCTTATTTCAACATGAATATTAT 594

QY 201 TrpSerLeuTrpLysArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 595 TGGAGCTGTGGAAGGTATCATCTCAGTAGAGTGCACAAAGCATCTGTGATGATGCTGCT 654

QY 221 ThrSerSerAlaSerGlyHisLeuHisArgAlaGlyValAlaCysArgThrSerAsn 240
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 655 GTCTCTTCCAAACATCTGTGACATCATTCAGAGTAGACATATCTTCAAGAGATCTCTT 714

QY 241 ProGlyLeuLysGluSerAlaAlaSerArgHisSerGluSerProArgArgLysSerSer 260
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 715 TCTGCATGCACAGAACTTCTGTGATCTTTCATTCAGAGACAGACAGAGAAAGATGAT 774

QY 261 IleLeuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySer 280
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 775 CTCATGTTTTCCTCCAGAACCAAGATGATGATGATGATGATGATGATGATGATGATGAT 834

QY 281 PheTrpArgSerGluSerAlaAlaLeuArgGlnArgGluTyrAlaGluLeuLeuArgGly 300
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 835 TTCTCCCATCAGATTCGTAGCTCTTCCACCAAGAGAACATGTGATGATGATGATGATGAT 894

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QY 301 ArglyLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCysTrpAlaPro 320
Db 895 AGGAGATTTAGCCAGTCACTGGCCATCTCTTAGGGGTTTGGCTGGGCTGCA 954
QY 321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGlnArgProLysSerVal 340
Db 955 TATTCTCTTTCACAAATGCTCTTTCATTTTATCTTCGACCAACAGGCTCTTAATCAGTT 1014
QY 341 TTPYrSerIleAlaPheTrpLeuGlnTrpPheAsnSerPheValAsnProPheLeuYr 360
Db 1015 TGGTATAGAAATTCATTTGGCTTCAGTGTTCATTCCTTTGTCAATCCTCTTTGTAT 1074
QY 361 ProLeuCysHisArgArgPheGlnIlyAlaPheTrpIleLeuCysValThrIlyTrp 380
Db 1075 CCATTGTGTACACAGGCTTTCAAAAGGCTTTCTTCAAAATATTTGTATATAAAAGCAA 1134
QY 381 ProAlaLeuSerGln---AsnGlnSerValSerSer 391
Db 1135 CCTTACCAATCACACACAGTGGTCAATCTTCT 1170
RESULT 9
US-09-875-076-13
Sequence 13, Application US/09875076
Publication No. US20030017528A1
GENERAL INFORMATION:
APPLICANT: Chen, Ruoping
APPLICANT: Dang, Huong T.
APPLICANT: Liaw, Chen W.
APPLICANT: Lin, I-Lin
TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
FILE REFERENCE: AREN0050
CURRENT APPLICATION NUMBER: US/09/875,076
CURRENT FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 09/417,044
PRIOR FILING DATE: 1999-10-12
PRIOR APPLICATION NUMBER: 60/120,416
PRIOR FILING DATE: 1999-02-16
PRIOR APPLICATION NUMBER: 60/121,851
PRIOR FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 60/123,946
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,949
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/136,436
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,437
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,439
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/137,131
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/141,448
PRIOR FILING DATE: 1999-06-29
PRIOR APPLICATION NUMBER: 60/156,653
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: 60/156,653
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: 60/157,280
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: 60/157,294
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: 60/157,281
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: 60/157,293
PRIOR FILING DATE: 1999-10-01

QY PRIOR APPLICATION NUMBER: 60/157,282
Db PRIOR FILING DATE: 1999-10-01
QY NUMBER OF SEQ ID NOS: 74
Db SOFTWARE: Patent In Ver. 2.1
QY SEQ ID NO 13
Db LENGTH: 1173
QY TYPE: DNA
Db ORGANISM: Homo sapiens
US-09-875-076-13
Alignment Scores:
Pred. No.: 4,396-141 Length: 1173
Score: 1370.50 Matches: 267
Percent Similarity: 78.32% Conservative: 40
Best Local Similarity: 68.11% Mismatches: 82
Query Match: 66.92% Indels: 3
Db: 10 Gaps: 2
US-10-626-445-8 (1-391) x US-09-875-076-13 (1-1173)
QY 1 MetSerGlnSerAsnSerThrGlyIleLeuProAlaAlaGlnValProLeuAlaPhe 20
Db 1 ATGCCAGTACTAATATAGCAACATCAATTTATCACAAGACACTCGGTACTTACATTT 60
QY 21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleLeuAlaPhe 40
Db 61 TTTATGCTCTTAAGTACCTTTTGTCTTAATGCTAGAAATGCTTGGTCAATTTTACTTT 120
QY 41 ValValaAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
Db 121 GTGTGGACAAACCTTAGACATGAGTATTTTCTTTTACTTGGCCATCTCT 180
QY 61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTrp 80
Db 181 GACTTCTTTGGGGGTGATCTCCATCTCTTGTACATCCCTCACACCGCTGTGAATGG 240
QY 81 AsnPheGlySerGlyIleCysMetPheTrpLeuIleThrAspTyrLeuLeuCysThrAla 100
Db 241 GATTTTGGAAAGAAATCTGTATTTTGGCTCACTGACTGACTATCTGTATGTACACA 300
QY 101 SerValTyrAsnIleValIleuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
Db 301 TCTGTATTAACATTTCTCTATCAGCTATGATGATACCTGCTCAAGTCTCAATCTGTG 360
QY 121 SerTyrArgAlaGlnHisThrGlyIleMetLysIleValAlaGlnMetValAlaValTrp 140
Db 361 TCTATAGAACCAACATAGTGGGCTTGAAGATTTTACTCTGATGCTGCGCTTGG 420
QY 141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTrpLysAsnSer 160
Db 421 GTGCTGGCTCTTCAAGTAAATGGGCCAATGATTTCAAGTTCAGAGTCTTGGAAAGATGA 480
QY 161 ThrAsnThrLysAspCysGluProGlyPheValThrGluTyrIleLeuThrIleThr 180
Db 481 GGTACT-----GAATGGAACCTGGATTTTTCGGAATGTATCTTCCATCA 534
QY 181 MetLeuLeuGlnPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleYr 200
Db 535 TCATCTTGAATTCGATCCAGTATCTTAGCGCTTATTTCAACATGAATATTAT 594
QY 201 TTPSerLeuTrpLysArgArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
Db 595 TGGAGCCCTGTGAAGCGGATCATCTCGTGGTGGCCAAAGCCTCGACGACTGCT 654
QY 221 ThrSerSerSerAlaSerGlyHisIleuHisArgAlaGlyValAlaCysArgThrSerAsn 240
Db 655 GTCTCTTCAACATCTGTGACACTTCAAGAGTACTTCAAGAGATCTCTT 714
QY 241 ProGlyLeuYrGlnSerAlaIleSerArgHisArgSerLeuProArgArgLysSerSer 260
Db 715 TCTGATCAGACAGAGTTCCTGCATCTCTTCAATTCAGAGACAGAGAGAAAGATGAT 774
QY 261 IleLeuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheValGlySer 280


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Db      775  CTCATGTTTCTCTCAAGAACCAAGATGATAGCAATACAAATTGCTCCAAAATGGTTCC 834
QY      261  PheTPaTgSerGluSerAlaAlaLeuArgGlnuTyraAlaGluLeuLeuArgGly 300
Db      835  TTCTCCCAATCAGATTCTGTAGCTCTTCAACAAAGGCAACATGTGAATCTGTAAGACC 894
QY      301  ArgGluLeuAlaArgSerLeuAlaIleLeuLeuSerAlaAlaPheAlaIleCysTrpAlaPro 320
Db      895  AGAGAAATGACCAAGTCACTGACCATTCTCTTAGGGGTTTGTGCTGTGGGCTTCA 954
QY      321  TyrCysLeuPheThrIleValLeuSerThrTyrProArgThnGluArgProLysSerVal 340
Db      955  TATTCTCTGTTCACAATTGCTCTTTCATTATTATCTTCAAGCAACAGGTCCTAAATCAATT 1014
QY      341  TrpTyrSerIleAlaPheTrpLeuGlnTrpPheAnSerPheValAsnProPheLeuTyr 360
Db      1015  TGGATATAGATTGCAATTTTGGCTTCAGTGTTCAATTCCTTTGCAATCTCTTTGTAT 1074
QY      361  ProLeuCysHisArgArgPheGlnIleValAlaPheTrpLysIleLeuCysValThrLysTrp 380
Db      1075  CCATTGTGTCAACAGCGCTTTCAAAGGCTTCTTGAAAAATATTTGTATAAAAAGCAA 1134
QY      381  ProAlaLeuSerGln---AsnGlnSerValSerSer 391
Db      1135  CCTCTACCATCAACAACAGTGGTCAGTATCTTCT 1170

RESULT 10
US-09-876-252-13
Sequence 13, Application US/09876252
Publication No. US20030018182A1
GENERAL INFORMATION:
APPLICANT: Behan, Dominic P.
APPLICANT: Lehmann-Brinisma, Karin
APPLICANT: Chalmers, Derek T.
APPLICANT: Lowitz, Kevin P.
APPLICANT: Lin, I-Lin
APPLICANT: Dang, Huong T.
APPLICANT: Chen, Ruoping
APPLICANT: Liew, Chen W.
TITLE OF INVENTION: Non-Endogenous Constititively Activated Human G Protein Coupled Receptor
FILE REFERENCE: AEPN-0054
CURRENT APPLICATION NUMBER: US/09/876, 252
CURRENT FILING DATE: 2001-06-07
PRIORITY APPLICATION NUMBER: 09/416,760
PRIORITY FILING DATE: 1999-10-12
PRIORITY APPLICATION NUMBER: 09/170,496
PRIORITY FILING DATE: 1998-10-13
PRIORITY APPLICATION NUMBER: 60/110,060
PRIORITY FILING DATE: 1998-11-27
PRIORITY APPLICATION NUMBER: 60/120,416
PRIORITY FILING DATE: 1999-02-16
PRIORITY APPLICATION NUMBER: 60/121,852
PRIORITY FILING DATE: 1999-02-26
PRIORITY APPLICATION NUMBER: 60/109,213
PRIORITY FILING DATE: 1998-11-20
PRIORITY APPLICATION NUMBER: 60/123,944
PRIORITY FILING DATE: 1999-03-12
PRIORITY APPLICATION NUMBER: 60/123,945
PRIORITY FILING DATE: 1999-03-12
PRIORITY APPLICATION NUMBER: 60/123,948
PRIORITY FILING DATE: 1999-03-12
PRIORITY APPLICATION NUMBER: 60/123,951
PRIORITY FILING DATE: 1999-03-12
PRIORITY APPLICATION NUMBER: 60/123,946
PRIORITY FILING DATE: 1999-03-12
PRIORITY APPLICATION NUMBER: 60/123,949
PRIORITY FILING DATE: 1999-03-12
PRIORITY APPLICATION NUMBER: 60/152,524
PRIORITY FILING DATE: 1999-09-03
PRIORITY APPLICATION NUMBER: 60/151,114
PRIORITY FILING DATE: 1999-08-27
PRIORITY APPLICATION NUMBER: 60/108,029

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PRIOR FILING DATE: 1998-11-12
PRIOR APPLICATION NUMBER: 60/136,436
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,436
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,567
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/137,127
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/137,131
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/141,448
PRIOR FILING DATE: 1999-06-29
PRIOR APPLICATION NUMBER: 60/136,437
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/156,555
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: 60/156,634
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: 60/156,653
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: 60/157,280
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: 60/157,294
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PRIOR APPLICATION NUMBER: 60/157,281
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: 60/157,282
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: 60/156,633
PRIOR FILING DATE: 1999-09-29
NUMBER OF SEQ ID NOS: 146
SOFTWARE: PatentIn version 3.0
SEQ ID NO 13
LENGTH: 1173
TYPE: DNA
ORGANISM: Homo sapiens
US-09-876-252-13

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Alignment Scores:			
Pred. No.:	4,39e-141	Length:	1173
Score:	1370.50	Matches:	267
Percent Similarity:	78.32%	Conservative:	40
Best Local Similarity:	68.11%	Mismatches:	82
Query Match:	66.92%	Indels:	3
DB:	10	Gaps:	2
US-10-626-445-8 (1-391) x US-09-876-252-13 (1-1173)			
QY	1 MetSerGIuSerAnSerThrGlyLeuProPoaAlaGlnValProLeuAlaPhe	20	
DB	1 ATCCGAGATCTCAATGACCAATCAATTATCATACACACCCGGTTCATTGACATT	60	
QY	21 LeuMetSerSerPheAlaPheAlaIleMetValGlyVaAnaAlaValIleLeuAlaPhe	40	
DB	61 TTTATGTCCTTAAGTACCTTTTGCTATATAGCTAGAGAAATGCTTGGTATTTAGCTTTT	120	
QY	41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer	60	
DB	121 GTGGTGAGCAAAACCTTAGACATCGAAGATAGTATTTTTTTCTTAATCTGGCATTCTCT	180	
QY	61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTyr	80	
DB	181 GACTCTCTTGGGGTGGTGAATCTTCATCTCTTTGTCATCTCTCACACGCTGTGCAATGG	240	
QY	81 AsnPheGlySerGlyIleCysMetPheTrpLeuIleThrAspTyrLeuLeuGlyThrAla	100	
DB	241 GATTGTGAAAGAAATCTGTGATTTGGCTACCTAGCATCTGTATGTACAGCA	300	
QY	101 SerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal	120	
DB	301 TCTGTATATACATGTGCTCTATCAGCTATGATGATCAATCTGTGACGTCTCAAAATGCTGTG	360	


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QY 121 SerTyrArgAlaGlnHisThrGlyTlleMeTylsIleValAlaGlnMetValAlaValTyr 140
DB 361 TCTTATAGAACTCAACATATCGGGCTTGAAGATGTACTCTGATGTCGCCCTTGG 420
QY 141 IleuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTrpIysAsnSer 160
DB 421 GTCGTGGCTTCTTATGATGATGGCCAAAGATCTTATGTTTCAAGATCTTGAAGAGATGAA 480
QY 161 ThrAsnThrLysAspCysGluProGlyPheValThrGluTrpTyrIleLeuThrIleThr 180
DB 481 GGTAGT-----GAATGTAACTGGATTTTTCGGAATGGATCACTCTTGCACATCA 534
QY 181 MetLeuLeuGluPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
DB 535 TCATTCCTTGAATTCCTGATCCAGATCACTTATGCTTATTTCAACATGATATTTAT 594
QY 201 TrpSerLeuTrpLysArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
DB 595 TGGAGCTGTGGAGGATGATCATCTCAGATAGGTGCCAAAGCCATCTTGCAGCTGACTGCT 654
QY 221 ThrSerSerSerAlaSerGlyHisLeuHisArgAlaGlyValAlaCysArgThrSerAsn 240
DB 655 GTCCTTCCAAACATCTGTGACATCTCATCAGAGTACATCTTCAAGAGATCTCTT 714
QY 241 ProGlyLeuLysGluSerAlaAlaSerArgHisSerGlySerProArgArgIysSerSer 260
DB 715 TCTGCATCAGACAGAGTTCCTGATCTCTTCACTTTCAGAGAGACAGAGAGAGAGTACT 774
QY 261 IleuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySer 280
DB 775 CTCATGTTTCTTCAGAAACCAAGATGAATGATACATATGCTTCCAAATGGATTC 834
QY 281 PheTrpArgSerGluSerAlaAlaLeuArgLysGluTyrAlaGluLeuLeuArgGly 300
DB 835 TTCCTCCAAATCAGATCTGTAGCTCTTCAACAAAGGAAACATGTGAATGCTTAGAGCC 894
QY 301 ArgLysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCysTrpAlaPro 320
DB 895 AGGAGATTAGCCAAAGTCACTGGCCATTCCTTAGAGGGTTCCTGCTGTGGCTGCCA 954
QY 321 TyrCysLeuPheThrIleValLeuSerTrpTyrProArgThrGluArgProIysSerVal 340
DB 955 TATTCCTGTGTCAACATATGCTTTCATTTTATCTCTCAGCAACAGGCTCTAAATCAGTT 1014
QY 341 TrpTyrSerIleAlaPheTrpLeuGlnTrpPheAsnSerPheValAsnProPheLeuTyr 360
DB 1015 TGGTATAGAAATTCGCAATTTGGCTTCAAGTGTCAATCTCTTGTCAATCTCTTTGTAT 1074
QY 361 ProLeuCysHisArgArgPheGlnLysValaPheTrpLysIleLeuCysValThrLysTrp 380
DB 1075 CCATGTGTGCACAAAGGCTTTCAAAAGGCTTCTTGAAAATATTTGTATATAAAGCA 1134
QY 381 ProAlaLeuSerGln---AsnGlnSerValSerSer 391
DB 1135 CCTTACCATCAACACAGTCGCTGATATCTTCT 1170

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RESULT 11

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US-10-052-193-1
; Sequence 1, Application US/10052193
; Publication No. US20020132755A1
; GENERAL INFORMATION:
; APPLICANT: Pfizer, Inc.
; TITLE OF INVENTION: HISTAMINE RECEPTOR ANTAGONISTS
; FILE REFERENCE: PCI0963A
; CURRENT APPLICATION NUMBER: US/10/052,193
; PRIOR FILING DATE: 2002-01-17
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO: 1
; LENGTH: 1173
; TYPE: DNA

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; ORGANISM: Homo sapiens
US-10-052-193-1
Alignment Scores:
Pred. No.: 4,396-141 Length: 1173
Score: 1370.50 Matches: 267
Percent Similarity: 78.32% Conservative: 40
Best Local Similarity: 68.11% Mismatches: 82
Query Match: 66.92% Indels: 3
DB: 13 Gaps: 2
US-10-626-445-8 (1-391) x US-10-052-193-1 (1-1173)
QY 1 MetSerGluSerAsnSerThrGlyIleLeuProProAlaAlaGlnValProLeuAlaPhe 20
DB 1 ATGCAGATACCTAAATAGACCAATCAATTTATCACTACACACCTCGTTACTTACATTT 60
QY 21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleLeuAlaPhe 40
DB 61 TTTATGTCCTTAGTAGCTTTTGTATTAATGCTAGAGAAATGCTTGTGTCATTTTACCTTT 120
QY 41 ValValaAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
DB 121 GTGGTGGCAAAACCTTAGACATGAGATGATATTTTCTTAACTTGGCCATCTCT 180
QY 61 AsnPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTrp 80
DB 181 GACTTCTTGTGGGTGATCTCCATTCCTTTGTATCATCCCTCAACCCCTGTCGATG 240
QY 81 AsnPheGlySerGlyIleCysMetPheTrpLeuIleThrAspTyrLeuLeuCysThrAla 100
DB 241 GATTTTGGAAAGAAATCTGTATTTTGGCTACTGACTGATCTGTATGTATGACAGA 300
QY 101 SerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
DB 301 TCTGATATTAACATTTGCTCTCATAGCATATGATGATACCTGATGCTCAAAATGCTGG 360
QY 121 SerTyrArgAlaGlnHisThrGlyTlleMeTylsIleValAlaGlnMetValAlaValTyr 140
DB 361 TCTTATAGAACTCAACATATCGGGCTTGAAGATGTACTCTGATGTCGCCCTTGG 420
QY 141 IleuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTrpIysAsnSer 160
DB 421 GTTGGCTTCTTATGATGATGGCCAAAGATCTTATGTTTCAAGATCTTGAAGAGATGAA 480
QY 161 ThrAsnThrLysAspCysGluProGlyPheValThrGluTrpTyrIleLeuThrIleThr 180
DB 481 GGTAGT-----GAATGTAACTGGATTTTTCGGAATGGATCACTCTTGCACATCA 534
QY 181 MetLeuLeuGluPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
DB 535 TCATTCCTTGAATTCCTGATCCAGATCACTTATGCTTATTTTCACATGATATTTAT 594
QY 201 TrpSerLeuTrpLysArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
DB 595 TGGAGCTGTGGAGGATGATCATCTCAGATAGGTGCCAAAGCCATCTTGCAGCTGACTGCT 654
QY 221 ThrSerSerSerAlaSerGlyHisLeuHisArgAlaGlyValAlaCysArgThrSerAsn 240
DB 655 GTCCTTCCAAACATCTGTGACATCTCATCAGAGTACATCTTCAAGAGATCTCTT 714
QY 241 ProGlyLeuLysGluSerAlaAlaSerArgHisSerGlySerProArgArgIysSerSer 260
DB 715 TCTGCATCAGACAGAGTTCCTGATCTCTTCACTTTCAGAGAGACAGAGAGAGAGTACT 774
QY 261 IleuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySer 280
DB 775 CTCATGTTTCTTCAGAAACCAAGATGAATGATACATATGCTTCCAAATGGATTC 834
QY 281 PheTrpArgSerGluSerAlaAlaLeuArgLysGluTyrAlaGluLeuLeuArgGly 300
DB 835 TTCCTCCAAATCAGATCTGTAGCTTTCACAAAGGAAACATGTGAATGCTTAGAGCC 894

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QY 301 ArglyLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCyStrAlaPro 320
Db 895 AGGAGATTAGCCAGTCACTGGCCATTCTTTAGGGGTTTGTCTGTTCTGGGCTCCA 954
QY 321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGluArgProlySerVal 340
Db 955 TATTCCTGTCACAAATGCTCTTCAATTTATTCCTCAGCAACAGGCTCTAAATCAGTT 1014
QY 341 TrpTyrSerIleAlaPheThrLeuGlnTrpPheAsnSerPheValaAsnProPheLeuTyr 360
Db 1015 TGGTATATGAAATTCATTTCGCTTCAGTGGTTCATTCTTGTCAATCTCTTTGTAT 1074
QY 361 ProLeuCyHisAlaArgArgPheGlnTyrAlaPheThrIleValLeuCyValaThrIleStrp 380
Db 1075 CCATTGTCACAAAGCCCTTTCAAAGGCTTTCTTGAAAAATATTTGTATATAAAAGCA 1134
QY 381 ProAlaLeuSerGln--AsnGlnSerValSerSer 391
Db 1135 CCTCTACATCACAAACAGTCGCTGATCTTCT 1170

RESULT 12
US-10-272-983-13
Sequence 13, Application US/10272983
Publication No. US20030148450A1
GENERAL INFORMATION:
APPLICANT: Chen, Huoping
APPLICANT: Dang, Huong T.
APPLICANT: Liaw, Chen W.
APPLICANT: Lin, I-Lin
TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
FILE REFERENCE: AREN0050
CURRENT APPLICATION NUMBER: US/10/272,983
CURRENT FILING DATE: 2002-10-17
PRIOR APPLICATION NUMBER: US/09/417,044
PRIOR FILING DATE: 1999-10-12
PRIOR APPLICATION NUMBER: 60/109,213
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/120,416
PRIOR FILING DATE: 1999-02-16
PRIOR APPLICATION NUMBER: 60/121,851
PRIOR FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 60/123,946
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,949
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/136,436
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,437
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,439
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/136,567
PRIOR FILING DATE: 1999-05-28
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 74
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 13
LENGTH: 1173
TYPE: DNA
ORGANISM: Homo sapiens
US-10-272-983-13

Alignment Scores:
Pred. No.: 4,39e-141 Length: 1173
Score: 1370.50 Matches: 267
Percent Similarity: 78.32% Conservative: 40
Best Local Similarity: 68.11% Mismatches: 82
Query Match: 66.92% Indels: 3
DB: 15 Gaps: 2

US-10-626-445-8 (1-391) x US-10-272-983-13 (1-1173)
QY 1 MetSerGluSerAsnSerThrGlyIleLeuProAlaAlaGlnValProLeuAlaPhe 20

Db 1 ATCCAGATPACTATAGACAAATCAATTATCACTAGACAGCTGCTACTTACGATTT 60
QY 21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleLeuAlaPhe 40
Db 61 TTTATGCTTACAGTACCTTTTGTATTAATGCAAGAAATGCTTGGCATTTAGCTTTT 120
QY 41 ValValaAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
Db 121 GTGGTGACAAAACCTTACACATGCAAGATTAATTTTCTTAACCTTGCCACTCTC 180
QY 61 AspPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTyr 80
Db 181 GACTCTTTGTGGGTGTGATCTCCATCTCTTTATACATCCCTCAGACGCTTGCAATGG 240
QY 81 AsnPheGlySerClyIleCysMetPheThrPheIleThrAspTyrIleLeuCyStrAla 100
Db 241 GATTGTGAAAGGAAATCTGTATTTTGGCTCAGTCACTGACTATCTGTTATGTACAGCA 300
QY 101 SerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
Db 301 TCTGTATATACATTTGCTTCATCACTATGATGATCTGTCATCTCAATGCTGTG 360
QY 121 SerTyrArgAlaGlnHisThrGlyIleMetIleValAlaGlnMetValAlaValTyr 140
Db 361 TCTTATAGAACTCAACATACCTGGGCTTGAAAGATTGTACTGTAGTGGCGCTTGG 420
QY 141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerThrIleVal 160
Db 421 GTGCTGGCTCTTCTTATGTAATGGCCAAATGATCTGTTCAAGATCTTGAAAGATGAA 480
QY 161 ThrAsnThrIleAspCysGluProGlyPheValThrGlyThrIleLeuThrIleThr 180
Db 481 GGTAGT-----GAATGTAACTGGAATTTTTCGGAATGTGATCTTGGCATCACA 544
QY 181 MetLeuLeuGluPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
Db 535 TCATCTTGGAATTCGTGATCCAGATCACTTATGCTGATTTTCAACATGAATATTTAT 594
QY 201 TrpSerLeuThrIleValArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
Db 595 TGGAGCCTGTGAAAGGTATATCATCTCAGATAGGTGCAAAAGCATCTGAGTACTGCT 654
QY 221 ThrSerSerSerAlaSerGlyHisLeuHisArgAlaGlyValAlaCysArgThrSerAsn 240
Db 655 GTCTCTTCAACATCTGTGACATCTATTCAGAGGTAGCATATCTTCAAAGAGATCTCT 714
QY 241 ProGlyLeuIleGluSerAlaAlaSerArgHisSerGluSerProArgArgIleSerSer 260
Db 715 TCTGCATCGACAGAACTTCCTGATCTCTTCAATTCAGAGACAGAGAGAAAGAGTAT 774
QY 261 IleLeuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheValGlySer 280
Db 775 CTCATGTTTCTCCAAAGAACCAAGATGAATAGCAATGATTCCTCCAAAGGGGTTC 834
QY 281 PheTrpArgSerGluSerAlaAlaLeuArgGlnArgGlyTyrAlaGluLeuLeuArgGly 300
Db 835 TTCTCCCAATCAATCTGATCTTTCACCAAGGGAACATGTTGAATCTGTTAAGCC 864
QY 301 ArglyLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCyStrAlaPro 320
Db 895 AGGAGATTAGCCAGTCACTGGCCATTCTTTAGGGGTTTGTCTGTTCTGGGCTCCA 954
QY 321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGluArgProlySerVal 340
Db 955 TATTCCTGTCACAAATGCTCTTCAATTTATTCCTCAGCAACAGGCTCTAAATCAGTT 1014
QY 341 TrpTyrSerIleAlaPheThrLeuGlnTrpPheAsnSerPheValaAsnProPheLeuTyr 360
Db 1015 TGGTATATGAAATTCATTTCGCTTCAGTGGTTCATTCTTGTCAATCTCTTTGTAT 1074
QY 361 ProLeuCyHisAlaArgArgPheGlnTyrAlaPheThrIleValLeuCyValaThrIleStrp 380

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Db      1075 CCATTGTGTACAGGCGTTTCAAAAAGCGTTTCTTGAATAATTTTGTATATAAAGCAA 1134
Qy      381 ProAlaLeuSerGln---AsnGlnSerValSerSer 391
Db      1135 CCTTACCATCACACACAGTGGGTGATATCTTCT 1170

RESULT 13
US-10-354-769-1
; Sequence 1, Application US/10354769
; Publication No. US20030149242A1
; GENERAL INFORMATION:
; APPLICANT: Pfizer Inc.
; APPLICANT: O'Reilly, Mark A.
; APPLICANT: Peter, Beate
; TITLE OF INVENTION: NOVEL POLYPEPTIDE
; FILE REFERENCE: PCL0373B
; CURRENT APPLICATION NUMBER: US/10/354,769
; CURRENT FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: US 09/698,801
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/211,243
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: GB 9925641.4
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: GB 0009973.9
; PRIOR FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 1173
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-354-769-1

Alignment Scores:
Pred. No.: 4,39e-141 Length: 1173
Score: 1370.50 Matches: 267
Percent Similarity: 78.328 Conservative: 40
Best Local Similarity: 68.118 Mismatches: 82
Query Match: 66.924 Indels: 3
DB: 15 Gaps: 2

US-10-626-445-8 (1-391) x US-10-354-769-1 (1-1173)
Qy      1 MetSerGlnSerAsnSerThrGlyIleuProProAlaAlaGlnValProIleuAlaPhe 20
Db      1 ATGCCAGATACATATGACACATCATTTATATCTACCTAGACACGCTGTACTTATGACATTT 60
Qy      21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValAlaIleuAlaPhe 40
Db      61 TTTATGTCTCTTAGTACCTTTTGTATTAATGCTAAGAAATGCTTTGGTCAATTTAGCTTTT 120
Qy      41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
Db      121 GTGGTGAACAAAACCTTGACATCGAAGTAGTATTTTCTTACTTGGCCATCTCT 180
Qy      61 AspPheLeuValGlyIleuIleSerIleProLeuTyrIleProHisValLeuPheAsnTyr 80
Db      181 GACTTCTTTGTGGGTGTGATCTCCATCTCTTTGTATACCTCCACACACGCTGTTCGAATGG 240
Qy      81 AsnPheGlySerGlyIleCysMetPheTyrPheLeuIleThrAspTyrIleuLeuCysThrAla 100
Db      241 GATTTTGGAAAGAAATCTGTGTATTTTGGCTCACACTACACTATCTGTTATGTACAGCA 300
Qy      101 SerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
Db      301 TCTGTATTAACATTTCTCTCATCACTTATGATCGATCTGTCACTCTCAATGCTGTG 360
Qy      121 SerTyrArgAlaGlnHisThrGlyIleMetCysIleValAlaGlnMetValAlaValTyr 140
Db      361 TCTTATAGAATCAACACTACTGGGGCTCTTGAAGATTGTTACTGTATGGTGGCCGTTTGG 420
Qy      141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTyrIlyAsnSer 160
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Db      421 GTGCTGGCTCTTATGTGAATGGCCAAATGATTTAGTTTACAGCTCTTGAAGAGTGA 480
Qy      161 ThrAsnThrIlyAspCysGlnProGlyPheValThrGluTyrIleLeuThrIleThr 180
Db      481 GGTACT-----GAATGTGAACCTGGATTTTTCGAAATGGTATCATCTTCCTGCATCACA 534
Qy      181 MetLeuLeuGluPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
Db      535 TCATTTCTTGGAAATTTGTATCTCCACTCATCTTAGTCGCTTATTTTAAACATGAATTTTAT 594
Qy      201 TrpSerLeuTyrPheArgArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
Db      595 TGGAGCTGTGGAAACGTGATCATCTTCAGTAGTCCAAAGCCATCTTGATGATGCT 654
Qy      221 ThrSerSerSerAlaSerGlyHisIleuHisArgAlaGlyValAlaCysArgThrSerAsn 240
Db      655 GTCTCTTCAACATCTGTGGACACATCATTCAGAGTAGACTATCTTCAAGAGATCTCTT 714
Qy      241 ProGlyLeuLysGlnSerAlaAlaSerArgHisSerGlnSerProArgArgLysSerSer 260
Db      715 TCTGCATGCACAGAAAGTCTCTGCATCTTTCATTCAGAGAGACAGAGAGAAAGGTGT 774
Qy      261 IleLeuValSerLeuArgThrHisMetAsnSerSerIleThrAlaPheLysValGlySer 280
Db      775 CTGATGTTTCTCTCAAGAACCAAGATGAATACATTAACAATTTGCTCCAAATGGGTTCC 834
Qy      281 PheTyrArgSerGlnSerAlaAlaLeuArgIleArgIleTyrAlaGlnLeuLeuArgGly 300
Db      835 TTCTCCCAATGACATGATTCGTAGCTCTTCCACCAAGAGAAATGTTGAATCTGTAGAGCC 894
Qy      301 ArgLysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCysTyrAlaPro 320
Db      895 AGGAAATTAAGCCAACTACTGGCCATTCCTTAGGGGTTTGTGCTGTGGTGGCGCTCCA 954
Qy      321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGluArgProLysSerVal 340
Db      955 TATTTCTGTGTACATTTGCTTTTATTTATTTCTTCTCAGCAACAGGTCCTTAATCAGTT 1014
Qy      341 TrpTyrSerIleAlaPheTyrPheLeuGlnTyrPheAsnSerPheValAsnProPheLeuTyr 360
Db      1015 TGGTATTAAGATTGCACTTTTGGTTCAGTGGTTCAATCTCTTGTCAATCTCTTTTGTAT 1074
Qy      361 ProLeuCysHisArgArgPheGlnLysAlaPheTyrIleLeuCysValThrIlyStrp 380
Db      1075 CCATTGTGTACAGGCGTTTCAAAAAGCGTTTCTTGAATAATTTTGTATATAAAGCAA 1134
Qy      381 ProAlaLeuSerGln---AsnGlnSerValSerSer 391
Db      1135 CCTTACCATCACACACAGTGGGTGATATCTTCT 1170

RESULT 14
US-10-393-807-13
; Sequence 13, Application US/10393807
; Publication No. US20030175891A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Ruoping
; APPLICANT: Dang, Huong T.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Human Orphan G Protein Coupled Receptors
; FILE REFERENCE: AREN0050
; CURRENT APPLICATION NUMBER: US/10/393,807
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: US/09/417,044
; PRIOR FILING DATE: 1999-10-12
; PRIOR APPLICATION NUMBER: 60/109,213
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/120,416
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/121,851
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: 60/123,946
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;; PRIOR FILING DATE: 1999-03-12
;; PRIOR APPLICATION NUMBER: 60/123,949
;; PRIOR FILING DATE: 1999-03-12
;; PRIOR APPLICATION NUMBER: 60/136,436
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/136,437
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/136,439
;; PRIOR FILING DATE: 1999-05-28
;; PRIOR APPLICATION NUMBER: 60/136,567
;; PRIOR FILING DATE: 1999-05-28
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 74
;; SOFTWARE: Patencin Ver. 2.1
;; SEQ ID NO: 13
;; LENGTH: 1173
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-10-393-807-13

Alignment Scores:

Pred. No.:	4,39e-141	Length:	1173
Score:	1370.50	Matches:	267
Percent Similarity:	78.32%	Conservative:	40
Best Local Similarity:	68.11%	Mismatches:	82
Query Match:	16	Indels:	3
		Gaps:	2

US-10-626-445-8 (1-391) x US-10-393-807-13 (1-1173)

QY 1 MetSerGluSerAsnSerThrGlyIleuProProlAlaGlnValProleuAlaPhe 20
DB 1 ATGCCAGATACATTAATGACCAATCAATTTATCACTAAGCATGCTGTACTTACGATTT 60
QY 21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleLeuAlaPhe 40
DB 61 TTTATGCTCTTATGATGCTTTTGTCTATTAAGCTAAGAAAGCTTTGCTTATTAAGCTTT 120
QY 41 ValValAspArgAsnLeuArgHisArgSerAsnTyrPhePheLeuAsnLeuAlaIleSer 60
DB 121 GTGGTGAGCAAAACCTTGACATCGAAGTATTTTCTTAACTTGGCCATCTCT 180
QY 61 AppPheLeuValGlyLeuIleSerIleProLeuTyrIleProHisValLeuPheAsnTyr 80
DB 181 GACTCTTCTTGGGTGATCTCCATTCCTTGTATACATCCCTCAACGCTGTGCAATG 240
QY 81 AsnPhgGlySerGlyIleCysMetPheTyrPheLeuIleThrAspTyrIleLeuLeuCythrAla 100
DB 241 GATTTTGAAGAAATCTGTGTATTTTGGCTCACTACGACTATCTGTTATGTACAGCA 300
QY 101 SerValTyrAsnIleValLeuIleSerTyrAspArgTyrGlnSerValSerAsnAlaVal 120
DB 301 TCTGTATTAACATTTCTCTCATCACTATGATCGATCTGCTCACTCAATGCTGTG 360
QY 121 SerTyrArgAlaGlnHisThrGlyIleMetValIleValAlaGlnMetValAlaValTyr 140
DB 361 TCTTATTAAGAACTCAACATCTGCGGCTTGAGATTGCTACCTGATGCGCCGTTTG 420
QY 141 IleLeuAlaPheLeuValIleGlnTyrProMetIleLeuAlaSerAspSerTyrIleAsnSer 160
DB 421 GTGCTGGCTCTTCTGTATGTAATGGGCAATGATTTCTGATTCAGAGCTTGGAAAGATGA 480
QY 161 ThrAsnThrIleAspCysGluProGlyPheValIleThrGluTyrIleLeuThrIleThr 180
DB 481 GGTAAGT-----GAATGTAACCTGGAATTTTTCGGAATGGTACATCTTGGCATCACA 534
QY 181 MetLeuLeuGluPheLeuLeuProValIleSerValAlaTyrPheAsnValGlnIleTyr 200
DB 535 TCATCTTGAATGATGATGATCCAGCATCTTATGCTTATTTCAACATGATATTTAT 594
QY 201 TTPSerLeuTyrIleArgAlaLeuSerArgCysProSerHisAlaGlyPheSerThr 220
DB 595 TGGAGCCTGTGGAAGGATGATCATCTCAGTAGTGCAAGCAAGCATCTCTGACTGACTGCT 654

QY 221 ThrSerSerAlaSerGlyHisIleuHisArgAlaGlyValAlaCysArgThrSerAsn 240
DB 655 GTCTCTTCAACATCTGTGACACATCATTCAGAGGATGATCTTCAAGAGATCTCTT 714
QY 241 ProGlyLeuIleGlyLeuSerAlaIleSerArgHisSerGluSerProArgArgIleSerSer 260
DB 715 TCTGATTCACAGAAAGTTCTCTGATCTTCTTCAATTCAGAGACAGAGGAAAGATAGT 774
QY 261 IleLeuValSerLeuArgThrHisIleMetAsnSerSerIleThrAlaPheValGlySer 280
DB 775 CTCAATGTTTCTTCAAGAACCAAGATGATGATGATGATGATGATGATGATGATGATG 834
QY 281 PheTyrArgSerGluSerAlaIleLeuArgGlnArgIleTyrAlaGlyLeuLeuArgGly 300
DB 835 TTCTCCCAATCAGATCTCTGATCTCTTCAACAAAGGAAATGTTGAATGCTTACAGCC 894
QY 301 ArgGlyLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCysThrAlaPro 320
DB 895 AGAGATTAAGCCAAAGTCACTGCGCATTCCTTACGAGGCTTTTGTGCTTGTGCGGCTCCA 954
QY 321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGluArgProIleSerVal 340
DB 955 TATCTCTGTCAACATGTCCTTTCATTTTATTCCTACAGCAACAGGTCCTAAATCAGTT 1014
QY 341 TTPYrSerIleAlaPheTyrPheGlnTyrPheAsnSerPheValAsnProPheLeuTyr 360
DB 1015 TGTATAGAAATTCATTTTGGCTTCAAGTGTTCATTCCTTGTCAATCTCTTTTGTAT 1074
QY 361 ProLeuCysHisArgArgPheGlnIleValAlaPheTyrIleLeuCysValThrIleTyr 380
DB 1075 CCATTTGTCAACACAGCTTTTCAAAAGCTTTCTTGAAGAAATTTTGTATTAAGAAAGCA 1134
QY 381 ProAlaLeuSerGln---AsnGlnSerValSerSer 391
DB 1135 CCTTACATCAACACACAGCTGTCGATATCTCT 1170

RESULT 15
US-10-417-820A-13
Sequence 13, Application US/10417820A
Publication No. US20030229216A1
GENERAL INFORMATION:
APPLICANT: Chen, Ruoping
APPLICANT: Liaw, Chen W.
APPLICANT: Lowitz, Kevin
APPLICANT: Chalmers, Derek T.
APPLICANT: Behan, Dominic P.
TITLE OF INVENTION: Constitutively Activated Human G Protein Coupled
FILE REFERENCE: 7, US28, CON
CURRENT APPLICATION NUMBER: US/10/417,820A
CURRENT FILING DATE: 2003-04-16
PRIOR APPLICATION NUMBER: 09/416,760
PRIOR FILING DATE: 1999-10-12
PRIOR APPLICATION NUMBER: 09/170,496
PRIOR FILING DATE: 1998-10-13
PRIOR APPLICATION NUMBER: 60/110,060
PRIOR FILING DATE: 1998-11-27
PRIOR APPLICATION NUMBER: 60/120,416
PRIOR FILING DATE: 1999-02-16
PRIOR APPLICATION NUMBER: 60/121,852
PRIOR FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 60/109,213
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/123,944
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,945
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,948
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/123,951
PRIOR FILING DATE: 1999-03-12
Remaining Prior Application data removed - See File Wrapper or PALM.

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; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 13
; LENGTH: 1173
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-417-820A-13

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Alignment Scores:	
Pred. No.:	4,39e-141
Score:	1370.50
Percent Similarity:	78.328
Best Local Similarity:	68.118
Query Match:	65.928
DB:	17
Length:	1172
Matches:	267
Conservative:	40
Mismatches:	82
Indels:	3
Gaps:	2

US-10-626-445-8 (1-391) X US-10-417-820A-13 (1-1173)

Qy	MeSerCyluSerzsmSerThrglyIleuProPolaalaginValProleuAlphe	20
Db	1 ATGCCAGATATCTAATGACATCAATTTATACATACAGACTCGGTTACTTTCAGATT	60
Qy	21 LeuMetSerSerPheAlaPheAlaIleMetValGlyAsnAlaValIleLeuAlaPhe	40
Db	61 TTATATGCTTACTTACTCTTTGCTCTAATGACATGAGAAATGCTTGGTCATTTTATGCTTTT	120
Qy	41 ValValAspArganLeuArghIstArgSerAsnYrPhePheLeuAsnLeuAlleSer	60
Db	121 GTGCTGACCAAAACCTTACATGACATGAGATGTTATTTTCTTAACTTGGCCATCTCT	180
Qy	61 AspPheLeuValGlyLeuIleSerIleProLeuYrIleProAlIleValLeuPheAsnTrp	80
Db	181 GACTTCTTTGTGGGTGTGATCTTCACATCTCTTTGTACATCTCCACAGCGTGTGAAATGG	240
Qy	81 AsnPheGlySerGlyIleCysMetPheTrpLeuIleThraPyrYrLeuLeuCysThraIa	100
Db	241 GATTTTGGAAAGGAAATCTGTGATTTTGGCTCACACTGACATCTGTATGTTATGACGCA	300
Qy	101 SerValYrAsnAlleValLeuIleSerYrAspArgYrGlnSerValSerAsnAlaVal	120
Db	301 TCTGTATATACATATGCTCTCAACGCTATGATGATATCTGTCACTGTCCTCAAAATGCTGTG	360
Qy	121 SerYrArgAlaGlnIstThrglyIleMetCylIleValAlaGlnMetValAlaValTrp	140
Db	361 TCTTATATGAACTCAACATCTGGGGCTTGAAGATTTGTACTCGATGATGGCGGTTTGG	420
Qy	141 IleLeuAlaPheLeuValAsnGlyProMetIleLeuAlaSerAspSerTrpYrAsnSer	160
Db	421 GTGTGGCCCTTCTTATGATGAATGGGCCAAAGATTTCTAGTTTCAAGCTTGGAGACGAAGA	480
Qy	161 ThrAsnThrlYsAspCysGlnProGlyPheValThrgluTrpYrIleLeuThrlleThr	180
Db	481 GGNAGT-----GAATGTAACTGTGATTTTTCGAAATGTATACCTTGGCATATCA	540
Qy	181 MetLeuLeuGlnPheLeuLeuProValIleSerValAlaYrPheAsnValGlnIleYr	200
Db	541 TCATTTCTTGGAAATTCGTGATCCGACATCTTACGTCTTATTTCAACATGAATATTTAT	594
Qy	201 TrpSerLeuTrpYrArgTrgAlaLeuSerArgCysProSerHlaIlaGlyPheSerThr	220
Db	595 TGGAGCGCTTGGAAGGTCATCATCTCAGTAGTGTCCAAACCATCTCGACGTACAGCT	654
Qy	221 ThrSerSerSerAlaSerGlyIstLeuIstAsrGlaGlyValAlaCysArgThrSerAsn	240
Db	655 GTCTCTTCCAAACTCTGTGACATCTCATTCAGAGGTAACTATCTTCAGAGATCTCTT	714
Qy	241 ProGlyLeuYsGlnSerAlaIaSerArgIstSerGlnSerProArgTrgYrYsSerSer	260
Db	715 TCTGATCTCAGCAGAAATCTCTGCATCTCTTCACTTCAAGAGACAGAGGAAGAAGTAGT	774
Qy	261 IleLeuValSerIleuArghTrhIstMetLeuAsnSerIleThrAlaPheIlyValGlySer	280
Db	775 CTATGTTTCTTCCAAAGAACAGATGAATACCAATATGCTTCTCCAAATGGGTTTCC	834

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Oy 281 thetPvAGSserGlnSerAlaIalaLeuArgGlnuYrAlaGluLeuLeuArgGly 300
Db 835 TTTCCTCCATACAGATTCTGTAGCTTTTACCAAGAGGAAACATGTTGAACACTGCTTAGAGCC 894
Oy 301 ArgIysLeuAlaArgSerLeuAlaIleLeuLeuSerAlaPheAlaIleCyStrIpaIpro 320
Db 895 AGGAGATTAGCCAACTACTGGCCATTCTCTTAGAGGGATTGTTGGCTGTTGGGCTCCA 954
Oy 321 TyrCysLeuPheThrIleValLeuSerThrTyrProArgThrGlnArgProLysSerVal 340
Db 955 TATTCTCTGTTCACAAATGTCCTTTCATTATTCCTCAGCAACAGGTCCTAAATCAGTT 101.
Oy 341 TrpTyrSerIleAlaPheTrpLeuGlnTrpPheLeuSerPheValAsnProPheLeuTyr 360
Db 1015 TGGATACAAATGGCATTTTGGCTTCAGGGCTTCATTCCTTGTCAAACTCTTTTGGAT 107
Oy 361 ProLeuCySHIaArgArgPheGluGlnValAlaPheTrpLysIleLeuCyValThrIlyStrp 380
Db 1075 CCATTGTGTCCAAAGCGCTTTCAAAAGGCTTTCGAAAATATTTTGTATATAAAAAGCAA 113
Oy 381 ProAlaLeuSerGln---AsnGlnSerValSerSer 391
Db 1135 CCTCTACCATACAAACACAGTCGGCTACGATATCTTCT 1170

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Search completed: October 8, 2005, 06:52:30
Job time : 894 secs

Db	835	TTCTCCCAATAGATTCTGTAGCTCTTACCCAAAGGAAACATGTTGAACCTGTTAGACC	894
Qy	901	AGGAAGCTAGCCAGGTCACTGGCCATCTTTGTAGACGCTTTTGCCATTGTGTGAGCTCA	960
Db	895	AGGAGATTAGCCAAAGTCACTGGCCATTCTCTTAAAGGGATTTTGTGCTGTGCTGGAGCTCA	954
Qy	961	TACGTCTGTCAAAATTTGCTTTTCACTTACCAGAAAGGAAAGCCCAATTCGTTG	1020
Db	955	TATTCCTGTGTCAAAATTTGCTTTCACTTTATTTCTCAGAACAGGCTCTTAATTCAGTT	1014
Qy	1021	TGTACAGCAATGGCTTCTGGCTCCAAATGTTCAATTTGTTGTTAATCCCTTCTGTAC	1080
Db	1015	TGTATATGAATTGCATTTTGGCTTCAAGTGGTTCAATTCCTTTGTCAATCCCTTTTGTAT	1074
Qy	1081	CCTTTGTGTCAAGGCGTTTCCAGAAAGGCTTTGTGAAGATACCTTGTGTACAAAGCA	1140
Db	1075	CCATTGTGTCAAGGCGCTTTCAAAAGGCTTTGTGAATAATTTTGTATAAAAAGCA	1134
Qy	1141	CCAGCGCTGTCAAGAAC---CAAGCAGTATCTTTGA	1176
Db	1135	CTCTACCATCAACACAGTGGCTGAGTATCTTTTAA	1173

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RESULT 3
US-09-891-053-2
Sequence 2, Application US/05891053
Patent No. 6750322
GENERAL INFORMATION:
APPLICANT: Itadani, Hitaru
APPLICANT: Takimura, Tetsuo
APPLICANT: Nakamura, Masao
APPLICANT: Kobayashi, Masahiko
APPLICANT: Tanaka, Ken-ichi
APPLICANT: Hidaka, Yusuke
APPLICANT: Onaka, Masataka
TITLE OF INVENTION: NOVEL GUANOSINE TRIPHOSPHATE (GTP)
TITLE OF INVENTION: BINDING PROTEIN-COUPLED RECEPTOR PROTEINS
FILE REFERENCE: 06501-083001
CURRENT APPLICATION NUMBER: US/09/891,053
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: PCT/JP99/07280
PRIOR FILING DATE: 1999-12-24
PRIOR APPLICATION NUMBER: PCT/JP98/05367
PRIOR FILING DATE: 1998-12-25
PRIOR APPLICATION NUMBER: JP 11/145661
PRIOR FILING DATE: 1999-05-25
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1239
TYPE: DNA
ORGANISM: Rattus norvegicus
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(1239)
US-09-891-053-2

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	Query Match	14.7%	Score 172.8	DB 4	Length 1239
	Best Local Similarity	49.6%	Pred. No. 2.2e-45		
	Matches 562	Conservative 0	Mismatches 557	Indels 15	Gaps 4
Qy	3	GTGGAGTCTAACAGTACTGGCATCTTTGGCACCAGCTGCTCAGGTCCCTTGGCATTTT	62		
Db	60	GGCGCTGCAGGCGGGGCGCGGCGCTTCGGCTGCTGGACGCGTGTCTGGCTGCGCT	119		
Qy	63	AATGTCTCATTGGCTTTGCTATAATGGTAGCAATGCTGAGTACTTTAGCCTTTGT	122		
Db	120	CATGCGCTGCTCATCTGTGGCACAGTACTGGGCAACGCGCTGATCTCCCTTCGT	179		
Qy	123	GGTGACAGAAACCTTAGACATCGAAGTAATATTTTCTTAATTTTGGCTAATTTCTGA	182		
Db	180	GGCGGATTCGACCTTCGCAACCCAGAACACTTCTTCTGCTCAACTCGGCACCTTCGA	239		

QY	183	TTTCTCGTGGGGTTGATTTCCATTCCTCTGTATCATCCCAAGTGTGTTTAACTG	239
Db	240	CTTCTCGTGGGGTGCCTTGTGCAATCCATTAGATACCTTATGTGCTACCGGCGTTG	299
QY	240	GAATTTTGAAGTGGAAATCTGCATGTTTGGCTCACTAGCATCTTTTGTGCAACGC	299
Db	300	GACCTTGGCCGGGGCCCTGTGCAAGCTGTGGCTGTGGTAACTAACTACTGTGTGCTC	359
QY	300	ATCTGTCTACAAATTTGTCTCTATTAGTACGATGATACCAATGCTTTCAATGTCTGT	359
Db	360	CTCGGCTCTTCAACATCGTACTCATCAGCTAAGACGATTCCTGTCAAGTCACTCGAGCTGT	419
QY	360	GCTTTATAGGGGCTCAACACACTGGCATCATGAATTTGTCTCAAAATGTGGGCGTTTG	419
Db	420	CTCTCAAGGGCCCAACGAGGGGGAACGAGACGGGCGGTTTGGAAAGATGCACTGTGTG	479
QY	420	GATACTGGCTTCTTGTGTAAATGAGCCCGATATTTCTGGCTTCAAG-----TTCTTGGAA	473
Db	480	GGTGTGGCCCTTCTGTGCTGATATGGGCTGGCATCTGTGATTTGGGAGTAACTGTGTGGG	539
QY	474	GAACAGACGGAACACAAAGACGTGTAGCTGTGCTTTGTTACAGAGTGTACATCTTCAAC	533
Db	540	CAGTTTCATCCCGACGAGGCGCACTGTCTATGTGAGATTTCTTACAACTGTGTACTTTCAT	599
QY	534	CATTACAATGCTCTTGGAAATTCCTGGCTTCCGTGATCTGTGGCTTATTCAATGTACA	593
Db	600	CACGGCTTCAACCTTCGAGTTCCTTACGAGCTTCTCTCAAGCTTACCTTCTTCAACCTCAG	659
QY	594	GATTTACTGAGGCTGTGGAAGCGGTAGGGCTCTCGATAGTGGTCCCTAGCCATGTGTGATTT	653
Db	660	CATCTACCTGAACATCCAGAGGGGCAACCGGCTTCGGTTGATGGGGGCGTGAAGGCTGG	719
QY	654	CTCCACTACCTTCTTCCAGTGTCTTACAGACATTTACAGAGCTGGGGTGGGCTTGCAGAAC	713
Db	720	CCCAAGAACCCCAACCAAGATGCGGAGCCCTCGCCACCTTCCAGCTCCCCCAGCTGTGGGG	779
QY	714	AAGTAAATCTGGAATTGAAGGAATCAGCTGCATCTCGTCACTCAGAAAGTCTCGAAGAA	773
Db	780	CTGTGGCTCAAAAGGGCAATGGCGAGGCCATGCCGTTGACAGCTCTGCAAGCTCTCTCAAG	839
QY	774	GAGCAGCATCTCTGTGTCTTAAAGAACTCACAATGAACAGCAGTATCACTGGCTTCAAAAGT	833
Db	840	GGGCACTGAGAGGGCAAGCTCAGTCA---AAAGGGGCTCCAAAGCATCAGATCTTACGC	896
QY	834	GGGTTCCTTCTGGGAGATCGAAAGTGCAGCGGCTTGCCTAAAGGAGTACGACAGCTTCT	893
Db	897	ATCCCTGAGAAAGGCGCATGAAGATGTGTCTCCCAAGACATCACACGAGGCTTTCGCGCTGTCTC	956
QY	894	CAGAGGACGGAAGCTAGCAGAGGTCACTGGGCAATCCTCTGAGGCGTTTGCATTTGGCTG	953
Db	957	GCGGAGACAGAGAGGTGGCAAGATGCTGGGCAATATGTGAGCAATCTTTGGGCTCTGTGCTG	1016
QY	954	GAGTCCATCTACTGTCTGTTCACAAATTTGTCTTTCAACTTAACTCCCAAGAACGAAACGCCCA	1013
Db	1017	GGGCGCGTACACGCTCTTAATGATCATTCGAGCTGTGGCATGGCGCGCTGCATCCCGGA	1076
QY	1014	ATCGGTGTGTACAGCATTTGCTTCTGTGCTGCAATGTTCATATTCGTTTGTAAATCCTT	1073
Db	1077	TT---ACTGTGACAGAGCTGTCTTCTGTGCTTCTGTGTGGCCAACTCGGCGCTCAACCCCGT	1133
QY	1074	TCTGTACCTTTGTGTACAGGCGGTTTCCAGAAAGGCTTTCGAAAGATACTTTG	1127
Db	1134	CCTTACCACTGTGCACTTACAGCTTTCGAGAGGCTTTCACAAAGCTCTCTGTG	1187

RESULT 4
US-09-891-053-5
; Sequence 5, Application US/09891053-5
; Patent No. 6750322
; GENERAL INFORMATION:
; APPLICANT: Itadanji, Hiraiku
; APPLICANT: Takimura, Tetsuo

APPLICANT: Nakamura, Takao
APPLICANT: Kobayashi, Masahiko
APPLICANT: Tanaka, Ken-ichi
APPLICANT: Hidaka, Yuenke
APPLICANT: Ohta, Masataka
TITLE OF INVENTION: NOVEL GUANOSINE TRIPHOSPHATE (GTP)
FILE REFERENCE: BINDING PROTEIN-COUPLED RECEPTOR PROTEINS
CURRENT APPLICATION NUMBER: US/09/891,053
PRIOR FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: PCT/JP99/07280
PRIOR FILING DATE: 1999-12-24
PRIOR APPLICATION NUMBER: PCT/JP98/05967
PRIOR FILING DATE: 1998-12-25
PRIOR APPLICATION NUMBER: JP 11/145661
PRIOR FILING DATE: 1999-05-25
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PASTSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 2700
TYPE: DNA
ORGANISM: Rattus norvegicus
FEATURE:
NAME/KEY: CDS
LOCATION: (351)..(1589)
NAME/KEY: misc_feature
LOCATION: (1)..(2700)
OTHER INFORMATION: n = A,T,C or G
US-09-891-053-5

Query Match 14.7%; Score 172.8; DB 4; Length 2700;
Best Local Similarity 49.6%; Pred. No. 3.6e-45;
Matches 562; Conservative 0; Mismatches 557; Indels 15; Gaps 4;

QY 3 GTGGAGCTTAACAGATCTGCAATCTTGGCCACAGCTGCTCCAGTCCCTTGGCATTCTT 62
DB 410 GCGGCTGAGAGCGGGGCGCGGCTTCTGCGCTGCTGACCGCTGTCTGCGCGCT 469
QY 63 AATGCTTCAATTTGCTTGTCTTAATAGTAGCAATGCTGATCTTGAAGCTTGT 122
DB 470 CATGGCGCTGCTCATGCTGCGCCAGTACTGGGCAACGCGCTGTATCTGCTTGT 529
QY 123 GGTGACAGAACTTTAGACATGGAATTAATTTTCTTAATTTGGCTAATTTTGA 182
DB 530 GCGGATTCAGACCTCCGACCCAGAACTTTCTTGTCTCAACCTGCGCATCTCGA 589
QY 183 CTTCCTCGGCTTGAATTTCAATCTCTGTACATCCCTCAGCTGTGTTAAC---TG 239
DB 590 CTTCCTCGGCTTGAATTTCAATCTCTGTACATCCCTCAGCTGTGTTAAC---TG 239
QY 240 GATTTTGAAGTGAATCTGATGATTTTGGCTCATTTACTGATCTTTTGGACCGC 299
DB 650 GACCTTCGCGCGGGGCTTGTGCAAGCTGTGCTGGTGTGATGATCTTGTGCTG 709
QY 300 ATCTGTCTCAATATTTCTTCAATTAAGTACATGATCAACATGCTTCAATGCTGT 359
DB 710 CTTCGCTTCAACATGATCTATGATGATGATGATGATGATGATGATGATGATGAT 769
QY 360 GCTTATAGGCTCAACATGATGATGATGATGATGATGATGATGATGATGATGAT 419
DB 770 CTTCATAGGCTCAACATGATGATGATGATGATGATGATGATGATGATGATGAT 829
QY 420 GATCTGCTTCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 473
DB 830 GGTGCTGCTTCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 889
QY 474 GAAACAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 533
DB 890 CAGTTCATCCCGAGGCGCAGTGTGATGATGATGATGATGATGATGATGATGAT 949
QY 534 CATTAAGTCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 593
DB 950 CAGGCTCTCAACCTTGAAGTCTTCAAGGCTTCTCAAGGCTTCAAGGCTTCAAG 1009

QY 594 GATTACTGAGCCCTGTGGAACGTGAGGCTTCTAGTAGTGCCCTTAGCATGTGAT 653
DB 1010 CATCTACCTGAGACATGACAGAGCGACCGGCTTGTGATGAGGCGGTGAGGCTG 1069
QY 654 CTTCATCTCTTCTTCAAGTCTTCAAGACATTTACACAGAGTGGGCTGTGACAGC 713
DB 1070 CCCAAGCCCCCAGATGCGCCAGCCCTGCGACCTCCAGCTCCCGAGCTGTGGG 1129
QY 714 AGTATCTGATTTGAAGAAATCAGCTGATCTGTCACTGAAGATCTGGAAGAA 773
DB 1130 CTGCTGCGCAAAAGGCAATGCGAGGCCATGCGTTGGACAGCTTGGAGCTCTCAAG 1189
QY 774 GAGCAGATCTCTGTGTCTTAAAGACTCAATGAACAGCACTGCTTCAAGT 833
DB 1190 GGGCAGTGAAGAGCCAGCTGCTCA---AAGGGGCTCAAGCATGATGATCTTCAAGC 1246
QY 834 GGGTCTCTTCTGCGATGGAAGAGTCAAGCGCTTGGCCAAAGGAGTACGACGCTT 893
DB 1247 ATCCCTGAGAAAGCCCATGAAATGATGTGTCCAGAGCATACCCAGCGCTTCCGCTGT 1306
QY 894 CAGAGGCAAGAGCTAGCCAGCTCACTGGCCATCTTCTGAGCGCTTTGCCATTTGCTG 953
DB 1307 GCGGACAAAGAGTGGCCAGTCCCTGCGCATCTGAGCATCTTTGGCTCTGCTG 1366
QY 954 GGGTCCATCTGTCTTCTTCAATGCTTCTTCACTTACCCAGAGCGGCCCA 1013
DB 1367 GCGGCGATACAGCTCTTCAATGATCATCGAGCTGCTTGGCCAGTGGCCGCTGATCCCGA 1426
QY 1014 ATCGGTGTGACAGATGCTTCTGCTGATGATGATGATGATGATGATGATGAT 1073
DB 1427 TT---ACGTGACGAGAGTCTTCTGCTGCTTCTGAGGCAACTGCGCTCAACCCGT 1483
QY 1074 TCTGATCCCTTGTGTCAAGGCTTTCAGAAAGCTTTCGAGATGATTTG 1127
DB 1484 CTTTACCCACTGTCTTCACTGATGATGATGATGATGATGATGATGATGATGAT 1537

RESULT 5
US-09-165-543-6
Sequence 6, Application US/09165543
Patent No. 6093545
GENERAL INFORMATION:
APPLICANT: Andrew D.J. Goodearl and Sandra Gluckman
TITLE OF INVENTION: Muscarinic Receptors and Uses Therefor
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/165,543
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/042,780
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Elizabeth A. Hanley
REGISTRATION NUMBER: 33,505
REFERENCE/DOCKET NUMBER: NNI-032CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)742-4214
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 1338 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1335
US-09-165-543-6

Query Match 12.2%; Score 143.2; DB 3; Length 1338;
Best Local Similarity 54.2%; Pred. No. 1e-35;
Matches 339; Conservative 0; Mismatches 278; Indels 9; Gaps 2;

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QY 3 GTGGAGTCTAACAGACTGCTGATCTTGCACACGAGCTGCTAGGTCCCTTGGCATTTT 62
DB 60 GGGGGCTGACAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 119
QY 63 AATGCTTCATTTGCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGT 122
DB 120 CATGGGGCTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 179
QY 123 GGTGACAGAAACCTTAGACATGGAATTAATTTTCTTAATTGGCTAATTTCTGA 182
DB 180 GGGGAGTTGAGGCTCCGACCCAGAACAACTTCTTCTGCTCAACCTCGCATCTCGA 239
QY 183 CTTCCTGAGGGGTTTATTTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 239
DB 240 CTTCCTGAGGGGTTTATTTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 299
QY 240 GAATTTTGAAGTGAATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 289
DB 300 GACCTTCGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 359
QY 300 ATCTGCTACAAATATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 359
DB 360 CTGGGCTTTCACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 419
QY 360 GTCTTATAGGGGCTCAACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 419
DB 420 CTCTTACAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 479
QY 420 GATCTGCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 473
DB 480 GGTGCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 539
QY 474 GAACAGCAGAACAAAGAGCTGTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 533
DB 540 CAGTTCATCCCGAGGGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 539
QY 534 CATTAACAATGCTTGTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 533
DB 600 CAGGGCTTCACCTCGAGTTCCTTCAAGCCCTTCTCAAGGCTTACCTTCAACCTCAG 659
QY 594 GATTACTGAGGCTGTGGAAGGCTA 619
DB 660 CATCTACCTGAACATCCAGAGGGCCA 685
```

RESULT 6

US-09-891-053-26
Sequence 26, Application US/09891053
Patent No. 6750322
GENERAL INFORMATION:
APPLICANT: Iteadani, Hiraiku
APPLICANT: Takimura, Tetsuo
APPLICANT: Nakamura, Takao
APPLICANT: Kobayashi, Masahiko
APPLICANT: Tanaka, Ken-ichi
APPLICANT: Hidaka, Yusuke
APPLICANT: Ohta, Masataka
TITLE OF INVENTION: NOVEL GUANOSINE TRIPHOSPHATE (GTP)

TITLE OF INVENTION: BINDING PROTEIN-COUPLED RECEPTOR PROTEINS
FILE REFERENCE: 06501-083001
CURRENT APPLICATION NUMBER: US/09/891,053
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: PCT/JP99/07280
PRIOR FILING DATE: 1999-12-24
PRIOR APPLICATION NUMBER: PCT/JP98/05967
PRIOR FILING DATE: 1998-12-25
PRIOR APPLICATION NUMBER: JP 11/145661
PRIOR FILING DATE: 1999-05-25
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 26
LENGTH: 1953
TYPE: DNA
ORGANISM: Rattus norvegicus
FEATURE:
NAME/KEY: CDS
LOCATION: (302)...(1636)
US-09-891-053-26

Query Match 12.2%; Score 143.2; DB 4; Length 1953;
Best Local Similarity 54.2%; Pred. No. 1.3e-35;
Matches 339; Conservative 0; Mismatches 278; Indels 9; Gaps 2;

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QY 3 GTGGAGTCTAACAGACTGCTGATCTTGCACACGAGCTGCTAGGTCCCTTGGCATTTT 62
DB 361 GGGGGCTGACAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 420
QY 63 AATGCTTCATTTGCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGTCTTGT 122
DB 421 CATGGGGCTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
QY 123 GGTGACAGAAACCTTAGACATGGAATTAATTTTCTTAATTGGCTAATTTCTGA 182
DB 481 GGGGAGTTGAGGCTCCGACCCAGAACAACTTCTTCTGCTCAACCTGCGCATCTCGA 540
QY 183 CTTCCTGAGGGGTTTATTTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 239
DB 541 CTTCCTGAGGGGTTTATTTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
QY 240 GAATTTTGAAGTGAATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 299
DB 601 GACCTTCGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 660
QY 300 ATCTGCTACAAATATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 359
DB 661 CTGGGCTTTCACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
QY 360 GTCTTATAGGGGCTCAACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 419
DB 721 CTCTTACAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 780
QY 420 GATCTGCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 473
DB 781 GGTGCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
QY 474 GAACAGCAGAACAAAGAGCTGTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 533
DB 841 CAGTTCATCCCGAGGGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
QY 534 CATTAACAATGCTTGTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 533
DB 901 CAGGGCTTCACCTCGAGTTCCTTCAAGCCCTTCTCAAGGCTTACCTTCAACCTCAG 960
QY 594 GATTACTGAGGCTGTGGAAGGCTA 619
DB 961 CATCTACCTGAACATCCAGAGGGCCA 986
```

RESULT 7

US-09-165-543-4
Sequence 4, Application US/09165543

Patent No. 6093545
GENERAL INFORMATION:
APPLICANT: Andrew D.J. Goodearl and Sandra Gluckman
TITLE OF INVENTION: Muscarinic Receptors and Uses Therefor
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/165,543
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/042,780
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Elizabeth A. Hanley
REGISTRATION NUMBER: 33,505
REFERENCE/DOCKET NUMBER: MNI-032CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 3244 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 778..2112
US-09-165-543-4

Query Match 12.2%; Score 143.2; DB 3; Length 3244;
Best Local Similarity 54.2%; Pred. No. 1.8e-35;
Matches 339; Conservative 0; Mismatches 278; Indels 9; Gaps 2;

3 GTCCGAGTCTAACAGTCTGCGATCTTGCCACCACTGCTGCTGCCCTTGGCATTTT 62
837 GCGCGCTGAGGCGGCGCGCGGCTTCGCGCTGCTGCAACCGCTGCTGCGCGCT 896
63 AATGCTTCAATTCCTTGTCTATATAGTGAAGCAATGCTGTCATCTTAGCTTTGT 122
897 CATGGCGCTGCTCATGCTGCGCAAGTATGCGGCAAGCGGCTGCTCATCTGCTTGT 956
123 GGTGACAGAAACCTTAGCATGATGAAAGTATTTTCTTAATTTGGCTATTTTGA 182
957 GCGGATTCGAGCTCTCCGACCCAGAACTTCTTCTGCTCAACCTCGCATCTCCGA 1016
183 CTTCCTCGGGTTGATTTTCATCTCTGTAACCTCTCAAGCTTGTTTAAC---TG 239
1017 CTTCCTCGGGTTCCTTCTGATTCCTCAATTCGTAACCTCTAAGTGTACCGCGTTG 1076
240 GAATTTGGAATGGAATCTGATGATTTTGGCTCATTTACTGACTATCTTTGGACCGC 299
1077 GACCTTCGCGCGGCGGCTCTGCAAGCTGTGCTGTGTGAGTACTACTGTGTGCTTC 1136
300 ATCTGTCTCAATATTTGCTTCAATTAAGTACGATGATCAACGATCGTTCAATGCTGT 359
1137 CTGCGTCTTCAACATGATGATCATGATGATGATGATGATGATGATGATGATGATG 1196
360 GTCTTAATGGGCTCAACAGATGATGATGATGATGATGATGATGATGATGATGATG 419

1197 CTCTTACAGGGCCGACGAGGGGACACAGACAGGGCCCTTGGAAAGTGCATGCTGTG 1256
420 GATACGTGCTTCTTCTGTAATAGCCCGATGATTTCTGCTTCAGA-----TTCTTGA 473
1257 GGTGCTGGCTTCTGCTGTATGGGCTGCGCATCTGAGTTGGAGTACCTGTCTGTGG 1316
474 GAAACAGCAGAAACAGAAAGAGTGTGAGCTTGTGTGTACAGAGTGTGATCTCTAC 533
1317 CAGTTCATCCCGGAGGCGCATGCTATGCTGAGTCTTCAACACTGTACTTCTCAT 1376
534 CATTAATAGCTCTGGAATCTGCTTCTGTCATCTGTGCTTATTTGATGTACA 593
1377 CAGGCTTCCACCTTCGAGTTCTTACGCGCTTCTTCAAGCTTACTTCAACTCAG 1436
594 GATTACTGAGCGCTGTGAAAGCGTA 619
1437 CATCTACCTGAACATCCAGAGCGCA 1462

RESULT 8
US-08-985-090-3
Sequence 3, Application US/08985090
Patent No. 5885893
GENERAL INFORMATION:
APPLICANT: Andrew D.J. Goodearl
TITLE OF INVENTION: MUSCARINIC RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,090
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Jean M. Silveri
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-032
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1335 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1335
US-08-985-090-3

Query Match 11.9%; Score 140.4; DB 2; Length 1335;
Best Local Similarity 53.6%; Pred. No. 8.4e-35;
Matches 341; Conservative 0; Mismatches 286; Indels 9; Gaps 2;

3 GTCCGAGTCTAACAGTCTGCGATCTTGCCACCACTGCTGCTGCCCTTGGCATTTT 62
60 GCGCGCGGCGGCGGCGGCGGCTTCTGCGAGCTGTGACCGCGGCTGTGCGCGCT 119
63 AATGCTTCAATTCCTTGTCTATATAGTGAAGCAATGCTGTGATCTTAAGCTTTGT 122

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Db 120 CATGGCCCTGCTCATCTGCGCCACGCTGCTGGGCAACGCGCTGCTCATGCTCGCTTGGT 179
Qy 123 GGTGGACAGAACTTATAGATCGAAGTATATTTTCTTAATTTGGCTATTTCTGA 182
Db 180 GGGCGACTCGAGCTCCGACCCAGAAACATTTCTCTCTCAACCTCGCCATCTCGA 239
Qy 183 CTTCCTGCTGGGTTTGAATTTCTATCTCTGTAACATCCCTCAGCTGTTG---TTTAAGT 239
Db 240 CTTCCTGCTGGGCTTCTGATCCCATCTATATGTAACCTACCTGCTGACAGCCGCTG 239
Qy 240 GAATTTTGAAGTGAATCTGCAATGTTTGGCTTCACTGACTATCTTTTGTGACCGC 239
Db 300 GACCTTCGGCCGGGGCTCTGCAAGCTGTGGTGTGAGACTACCTGCTGTGACCTC 359
Qy 300 ATCTGCTCAATATTTGCTCATTTAGTACATGATGCAACAGCAAGTTTCAATATGCTG 359
Db 360 CTTCGCTTCAACATGCTGCTCATCACTAGACAGCCGCTTCTGCTGCTCAACCGAGCGGT 419
Qy 360 GTCTTAAGGCTCAACACACTGCGCATCATGAAGATTTGTCTCAATGTTGGCTGTTTG 419
Db 420 CTCAATACGGGGCCAGAGGGTGAACAGCGGGCGGAGTGCGGAAGATGCTGCTGTGTG 479
Qy 420 GATACCTGCTTTCTTGTAAATGCCCCGATGATTTCTGCTTCAAGAT-----TCTTGA 473
Db 480 GGTGCTGGCTCTCTGCTGTACGAGACAGCCATCTGAGCTGGGAGTACCTGTCCGGGG 539
Qy 474 GAACAGACAGAACAAAGAGATGTAGCCTGCTTGTATACAGAGTGTACATCTCTAC 533
Db 540 CACCTCCATCCCGAGGGCCACTGTATGCTGAGTTCTTTACAACTGTAATCTCTCAT 539
Qy 534 CATTACAATGCTCTTGAATTTCTGCTTCTGTATCTCTGTGAGCTATTTCAATGTACA 533
Db 600 CAGGCTTCAACCTCGAAGTTCTTTAGCCCTTCTCAAGGCTCACTTTTAACTCAG 659
Qy 594 GATTTACTGAGCTGTGGAAGCTGAGGCTTCTCAG 629
Db 660 CATCTACCTGAACTCAGAGGCGCACCCGCTCCG 695

RESULT 9
US-09-165-543-3
; Sequence 3, Application US/09165543
; Patent No. 6093545
; GENERAL INFORMATION:
; APPLICANT: Andrew D.J. Goodearl and Sandra Glucksmann
; TITLE OF INVENTION: Muscarinic Receptors and Uses Therefor
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/165,543
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/042,780
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Elizabeth A. Hanley
; REGISTRATION NUMBER: 33,505
; REFERENCE/DOCKET NUMBER: MNT-032CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400

```

```

; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1335 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1335
; US-09-165-543-3

Query Match 11.9%; Score 140.4; DB 3; Length 1335;
Best Local Similarity 53.6%; Pred. No. 8.4e-35;
Matches 341; Conservative 0; Mismatches 286; Indels 9; Gaps 2;

Qy 3 GTCCGAGCTTACAGTATGCGCATCTTGGCCACCAAGCTGCTCAGGTCCTTGGCATTTT 62
Db 60 GCGGGCGCGCGGGCGGGCGCGCTTCTCGGCAAGCTGGAACCGCGTGGCCGCGCT 119
Qy 63 AATGCTTCAATTGCTTTGTATTAATGGAAGCAGATGCTGATCTTATGCTTTGT 122
Db 120 CATGGCGCTGCTCATGTGCGCACGGGTGAGGCAACGCGTGTATGCTCGCTTCTG 179
Qy 123 GGTGGACAGAACTTATAGATCGAAGTATATTTTCTTAATTTGGCTATTTCTGA 182
Db 180 GGGCGACTCGAGCTCCGACCCAGAAACATTTCTCTCTCAACCTCGCCATCTCGA 239
Qy 183 CTTCCTGCTGGGTTTGAATTTCTATCTCTGTAACATCCCTCAGCTGTTG---TTTAAGT 239
Db 240 CTTCCTGCTGGGCTTCTGATCCCATCTATATGTAACCTACCTGCTGACAGCCGCT 239
Qy 240 GAATTTTGAAGTGAATCTGCAATGTTTGGCTTCACTGACTATCTTTTGTGACCGC 239
Db 300 GACCTTCGGCCGGGGCTCTGCAAGCTGTGGTGTGAGACTACCTGCTGTGACCTC 359
Qy 300 ATCTGCTCAATATTTGCTCATTTAGTACATGATGCAACAGTCAAGTTTCAATGCTGT 359
Db 360 CTTCGCTTCAACATGCTGCTCATCACTAGACAGCCGCTTCTGCTGCTCAACCGAGCGGT 419
Qy 360 GTCTTAAGGCTCAACACACTGCGCATCATGAAGATTTGTCTCAATGTTGGCTGTTTG 419
Db 420 CTCAATACGGGGCCAGAGGGTGAACAGCGGGCGGAGTGGGAAGATGCTGTGTTGT 479
Qy 420 GATACCTGCTTTCTTGTAAATGCCCCGATGATTTCTGCTTCAAGAT-----TCTTGA 473
Db 480 GGTGCTGGCTTCTCTGCTGTACGAGACAGCCATCTGAGCTGGAGTACCTGTCCGGGG 539
Qy 474 GAACAGACAGAACAAAGAGATGTAGCCTGCTTGTATACAGAGTGTACATCTCTAC 533
Db 540 CACCTCCATCCCGAGGGCCACTGTATGCTGAGTTCTTTACAACTGTAATCTCTCAT 539
Qy 534 CATTACAATGCTCTTGAATTTCTGCTTCTGTATCTCTGTGAGCTATTTCAATGTACA 533
Db 600 CAGGCTTCAACCTCGAAGTTCTTTAGCCCTTCTCAAGGCTCACTTTTAACTCAG 659
Qy 594 GATTTACTGAGCTGTGGAAGCTGAGGCTTCTCAG 629
Db 660 CATCTACCTGAACTCAGAGGCGCACCCGCTCCG 695

RESULT 10
US-09-167-354-6
; Sequence 6, Application US/09167354A
; Patent No. 6136559
; GENERAL INFORMATION:
; APPLICANT: Lovenberg, Timothy
; APPLICANT: Erlanger, Mark
; APPLICANT: Pyati, Jayashree
; APPLICANT: Huvac, Arne
; TITLE OF INVENTION: DNA ENCODING A HUMAN HISTAMINE RECEPTOR OF THE H3
; TITLE OF INVENTION: SUBTYPE

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? FILE REFERENCE: JMW
? CURRENT APPLICATION NUMBER: US/09/167,354A
? CURRENT FILING DATE: 1998-10-07
? NUMBER OF SEQ ID NOS: 8
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO: 6
? LENGTH: 1335
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURES:
? OTHER INFORMATION: Description of Artificial Sequence: CDNA
? US-09-167-354-6

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Query Match	11.9%	Score 140.4;	DB 3;	Length 1335;
Best Local Similarity	53.6%;	Pred. No. 8.4e-35;		
Matches 341;	Conservative 0;	Mismatches 286;	Indels 9;	Gaps 2;

[illegible]

RESULT 11
 US-09-642-855-6
 : Sequence 6, Application US/09642855
 : Patent No. 643743
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: Lovendberg, Timothy
 : APPLICANT: Erlander, Mark
 : APPLICANT: Pyatt, Jayashree
 : APPLICANT: Huval, Arne
 :
 : TITLE OF INVENTION: DNA ENCODING A HUMAN HISTAMINE RECEPTOR OF THE H3
 : TITLE OF INVENTION: SUBTYPE

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? FILE REFERENCE: JMW
? CURRENT APPLICATION NUMBER: US/09/642,855
? CURRENT FILING DATE: 2000-08-21
? PRIOR APPLICATION NUMBER: 09/167,354
? PRIOR FILING DATE: 1998-10-06
? NUMBER OF SEQ ID NOS: 8
? SOFTWARE: Patentl Ver. 2.0
? SEQ ID NO 6
? LENGTH: 1335
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Description of Artificial Sequence:CDNA
US-09-642-855-6

Query Match      11.9%; Score 140.4; DB 3; Length 1335;
Best Local Similarity 53.6%; Fred. No. 8.4e-35;
Matches 341; Conservative 0; Mismatches 286; Indels 9; Gaps 2

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[illegible]

RESULT 12
US-09-642-514-6
Sequence 6, Application US/09642514
Patent No. 6437100
GENERAL INFORMATION:
APPLICANT: Lovendeg, Timothy
APPLICANT: Brlander, Mark
APPLICANT: Pyatt, Jayashree
APPLICANT: Huvar, Arne

```

1  / TITLE OF INVENTION: DNA ENCODING A HUMAN HISTAMINE RECEPTOR OF THE H3
2  /
3  / TITLE OF INVENTION: SUBTYPE.
4  /
5  / FILE REFERENCE: ORT1290
6  /
7  / CURRENT APPLICATION NUMBER: US/09/642,514
8  /
9  / CURRENT FILING DATE: 2000-08-21
10 /
11 / PRIOR APPLICATION NUMBER: US 09/167,354
12 /
13 / PRIOR FILING DATE: 1998-10-06
14 /
15 / NUMBER OF SEQ ID NOS: 8
16 /
17 / SOFTWARE: PatentIn Ver. 2.0
18 /
19 / SEQ ID NO 6
20 /
21 / LENGTH: 1335
22 /
23 / TYPE: DNA
24 /
25 / ORGANISM: Artificial Sequence
26 /
27 / FEATURE:
28 /
29 / OTHER INFORMATION: Description of Artificial Sequence:CDNA
30 /
31 / US-09-642-514-6

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Db 930 CATCTACCTGAACATCCAGAGCGCCGCTCCG 965

RESULT 14
US-09-949-016-5059
Sequence 5059, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5059
LENGTH: 2665
TYPE: DNA
ORGANISM: Human
US-09-949-016-5059

Query Match 11.9%; Score 140.4; DB 4; Length 2665;
Best Local Similarity 53.6%; Pred. No. 1.3e-34;
Matches 341; Conservative 0; Mismatches 286; Indels 9; Gaps 2;

QY 3 GTCCGAGCTGAACATCTGAGCTCTTCCACACAGCTGCTCAGGTCCTCCCTGGCATTTT 62
DB 351 GCGCGGGGCGGGGCGGGGCGGGGCTTCTCGGACGCTGACCGCGGCTGGCGCGCT 410
QY 63 AATGCTTATTTGCTTCTTGTATATATGTAAGCAATGCTGCTATCTTACCTTTGT 122
DB 411 CATGCGCTGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 470
QY 123 GGTGACAGAAACCTTGAACATGAGTATATTTTCTTAAATTTGGTATTTCTGA 182
DB 471 GCGCAGCTGAGGCTTCCGACCGAGAACACTTCTTCTGCTCAACCTGCGCATCTCGA 530
QY 183 CTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 239
DB 531 CTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 590
QY 240 GAATTTGGAATGGAATGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 299
DB 591 GACCTTGGCGGGGCTGCTGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 650
QY 300 ATCTGCTCAATATATGCTCTCATTTAGTACGATGATGATGATGATGATGATGATGAT 359
DB 651 CTCTGCTTCAACATGCTGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 710
QY 360 GTCTTATAGGCTCAACACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 419
DB 711 CTCATATACCGGGGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 770
QY 420 GATPACGCTTCTTGTGTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 473
DB 771 GGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 830
QY 474 GAACAGACGAACACAAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 533
DB 831 CAGCTCCATCCCGAGGGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 890
QY 534 CATTAACATGCTTCTGGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 593
DB 891 CACGCTTCCACCTGGAATCTTCTTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 950
QY 594 GATTTACTGAGACCTGCTGGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 629

Db 951 CATCTACCTGAACATCCAGAGCGCCGCTCCG 986

RESULT 15
US-08-985-090-1
Sequence 1, Application US/08985090
Patent No. 5885893
GENERAL INFORMATION:
APPLICANT: Andrew D.J. Goodearl
TITLE OF INVENTION: MUSCARINIC RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,090
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Jean M. Silverl
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-032
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2689 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 291..1625
US-08-985-090-1

Query Match 11.9%; Score 140.4; DB 2; Length 2689;
Best Local Similarity 53.6%; Pred. No. 1.3e-34;
Matches 341; Conservative 0; Mismatches 286; Indels 9; Gaps 2;

QY 3 GTCCGAGCTGAACATCTGAGCTCTTCCACACAGCTGCTCAGGTCCTCCCTGGCATTTT 62
DB 350 GCGCGGGGCGGGGCGGGGCGGGGCTTCTCGGACGCTGACCGCGGCTGGCGCGCT 409
QY 63 AATGCTTATTTGCTTCTTGTATATATGTAAGCAATGCTGCTATCTTACCTTTGT 122
DB 410 CATGCGCTGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 469
QY 123 GGTGACAGAAACCTTGAACATGAGTATATTTTCTTAAATTTGGTATTTCTGA 182
DB 470 GCGCAGCTGAGGCTTCCGACCGAGAACACTTCTTCTGCTCAACCTGCGCATCTCGA 529
QY 183 CTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 239
DB 530 CTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 589
QY 240 GAATTTGGAATGGAATGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 299
DB 590 GACCTTGGCGGGGCTGCTGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 649

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QY 300 ATCTGCTACAAATATGTCCTCATTAAGCTACGATCGATACCAAGTTCAAATGCTGT 359
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 650 CTCTGCTCTCAACATGCTGTGCTACAGTACGACCGCTTCTGTGCTACCCGAGCGGT 709
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 360 GTCTTATAGGCTCAACACACTGGCATCATGAAGATTGTGCTCAATGGTGGCTTTG 419
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 710 CTCATACCGGGCCGACGAGGTGACACGCGCGGGCAGTCCGGAAGATGCTGTGGTGTG 769
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 420 GATACGTGCTTCTTGTAAATGCCCCGATGATTCTGGCTTCAGAT-----TCTTGAA 473
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 770 GGTGCTGGCTTCTGCTGTACGACCACTGAGCTGGAAGTACCTGTCCGAGG 829
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 474 GAACAGCACGAAACAAAGACTGTGAGCTGTGTTTACAGAGGTACATCTCTAC 533
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 830 CAGCTCCATCCCGAGGGCCACTGCTATGCGAGTTCTTACAACTGTAATTCCTCAT 889
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 534 CATTAACAATGCTTTGGAAATTCCTGCTTCTGTCATCTGTGGCTTATTCAATGTACA 593
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 890 CACGGCTTCCACCCTGAGTTCTTTAGGCCCTTCTCAGCGTCACTTTTAACCTCAG 949
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 594 GATTACTGGAGCTGTGAAAGCGTAGGCTCTCAG 629
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 950 CATCTACCTGAACATCCAGAGCGCACCGGCTTCG 985
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Job time : 239 secs

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